

## Vedo 2.15.x

VEDO10  
VEDO34  
VEDO68  
VEDO200

VEDO34M  
VEDO68M  
VEDO200M

**COMELIT**  
F E E L · S E C U R E

### SYSTEM MANUAL

- IT** Scansionare il seguente codice QR per leggere questo manuale in **italiano**  
**FR** Encadrer le code QR ci-après pour lire ce manuel en **français**  
**NL** Scan de volgende QR-code voor deze handleiding in het **Nederlands**  
**ES** Escanear el siguiente código QR para leer este manual en **español**



EN

## Warning

### Intended use

This Comelit product has been designed and manufactured for use in the creation of security and automation systems in residential, commercial, industrial and public buildings.

### Installation



All activities connected to the installation of Comelit products must be carried out by qualified technical personnel, with careful observation of the indications provided in the Manuals / Instruction sheets supplied with those products. The product must be installed to the highest standards.

### Wires



Disconnect the power supply before carrying out any operations on the wiring. Use wires with a cross-section suited to the distances involved, observing the instructions provided in the system manual. We advise against running the system wires through the same duct as power cables (230V or higher).

### Safe usage



To ensure Comelit products are used safely:

- carefully observe the indications provided in the Manuals / Instruction sheets
- make sure the system created using Comelit products has not been tampered with / damaged.

### Maintenance

Comelit products do not require maintenance aside from routine cleaning, which should be carried out in accordance with the indications provided in the Manuals / Instruction sheets.

Any repairs must be carried out:

- for the products themselves, exclusively by **Comelit Group S.p.A.**,
- for the systems, by qualified technical personnel.

Do not use alcohol or aggressive products for cleaning purposes.

### Disclaimer

**Comelit Group S.p.A.** does not assume any responsibility for:

- any purpose other than the intended use
- failure to observe the indications and warnings contained in this Manual / Instruction sheet.

**Comelit Group S.p.A.** reserves the right to change the information provided in this Manual / Instruction Sheet at any time and without prior notice.

### Directives



The manufacturer, **Comelit Group S.p.A.**, hereby declares that this equipment conforms to the applicable directives. The full EU conformity declaration is available on the product web page.



In accordance with art. 26 of Italian Legislative Decree dated 14th March 2014, no. 49 "Implementation of directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE)", the "crossed-out wheellie bin" symbol indicates that at the end of its useful life, this product must be separated from other waste before collection for disposal. The user should therefore take the exhausted appliance to suitable local collection centres for waste electrical and electronic products. As an alternative to handling this process yourself, you can take the appliance to your local equipment dealer when purchasing a new equivalent product. Electronics dealership businesses covering an area of 400 m<sup>2</sup> are also obliged to accept waste electronic products smaller than 25 cm for disposal, without any obligation to purchase. Suitable separated waste collection for the subsequent reuse of the appliance sent for recycling, processing and environmentally conscious disposal helps to avoid potential negative effects on the environment and human health, and encourages the reuse and recycling of the materials used in the construction of the appliance.

## Key to symbols

Below is the legend of the symbols used in this manual:



This symbol identifies an aspect, a feature, or an action that requires particular care and caution as negligence could result in a hazardous situation for people.



This symbol identifies a situation in which the user/ maintenance technician/installer could be exposed to the risk of electric shock.



This symbol identifies an aspect, a feature, or an action that requires particular care and caution as negligence could lead to damage to the product or the system.



This symbol identifies important information for installation, use, or configuration.



This symbol identifies important information for system certification.

# Table of contents

|                                                                                                                |           |                                                                                                          |           |
|----------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------|-----------|
| <b>Warning</b>                                                                                                 | <b>1</b>  | <b>VEDOKP, VEDOKP200, VEDOKPR, VEDOKPR200</b>                                                            | <b>38</b> |
| KEY TO SYMBOLS                                                                                                 | 1         | Mounting in box 503                                                                                      | 38        |
|                                                                                                                |           | Surface mounting                                                                                         | 38        |
| <b>Introduction to the system</b>                                                                              | <b>3</b>  | <b>VEDO5TPR, VEDO5TPRW</b>                                                                               | <b>39</b> |
| DESCRIPTION OF SYSTEM COMPONENTS                                                                               | 3         | Preparing the plastic housing                                                                            | 39        |
| Communication standard                                                                                         | 3         | Mounting in box 503                                                                                      | 39        |
| Module addresses                                                                                               | 3         | Mounting in a round box                                                                                  | 39        |
| GENERAL                                                                                                        | 3         | <b>RF10VEDO, RF32VEDO, VEDO8I8O, VEDO8I8OA</b>                                                           | <b>40</b> |
| Main system specifications                                                                                     | 3         | Preparing the plastic housing                                                                            | 40        |
| Power supply unit technical specifications                                                                     | 6         | Fixing the plastic housing to the wall                                                                   | 40        |
| <b>Identification of parts and separation of circuits</b>                                                      | <b>8</b>  | <b>Notes on installation and programming</b>                                                             | <b>41</b> |
| BOXSTANDARD                                                                                                    | 8         | WHAT TO DO BEFORE POWERING UP THE SYSTEM                                                                 | 41        |
| Positioning components and fixings                                                                             | 8         | DEFAULT CONFIGURATION                                                                                    | 41        |
| Routes for separating the low-voltage circuit (SELV) and high-voltage circuit                                  | 8         | INTRODUCTION TO PROGRAMMING FROM THE KEYPAD                                                              | 41        |
| BOXMETAL                                                                                                       | 9         | Keypad description                                                                                       | 41        |
| Positioning components and fixings                                                                             | 9         | Default codes                                                                                            | 41        |
| Routes for separating the low-voltage circuit (SELV) and high-voltage circuit                                  | 10        | Navigation mode                                                                                          | 41        |
|                                                                                                                |           | Modifying a numerical value                                                                              | 41        |
|                                                                                                                |           | Editing an alphanumeric string                                                                           | 41        |
|                                                                                                                |           | Setting the serial number of the keypad                                                                  | 42        |
|                                                                                                                |           | Full arming of the alarm system                                                                          | 42        |
|                                                                                                                |           | Part arming of the alarm system / execution of a scenario                                                | 42        |
|                                                                                                                |           | Full deactivation of the alarm system                                                                    | 42        |
|                                                                                                                |           | Muting an alarm with the system deactivated                                                              | 42        |
|                                                                                                                |           | Accessing programming mode as a User                                                                     | 42        |
|                                                                                                                |           | Accessing programming mode as an Installer (installer code authorisation)                                | 42        |
|                                                                                                                |           | Change date and time                                                                                     | 42        |
|                                                                                                                |           | Acquiring an RFID key code from the keypad                                                               | 42        |
|                                                                                                                |           | Acquiring a radio sensor code from the keypad                                                            | 42        |
|                                                                                                                |           | Acquiring a radio control code from the keypad                                                           | 43        |
|                                                                                                                |           | Acquiring a sounder code from the keypad                                                                 | 43        |
|                                                                                                                |           | Exiting programming mode                                                                                 | 43        |
|                                                                                                                |           | Restoring factory settings                                                                               | 43        |
|                                                                                                                |           | Setting the control panel to Service Status                                                              | 44        |
|                                                                                                                |           | Exiting Service Status                                                                                   | 44        |
|                                                                                                                |           | <b>FAST NAVIGATION OF KEYPAD MENU (INSTALLER AND USER)</b>                                               | <b>44</b> |
| <b>Technical and installation specifications</b>                                                               | <b>11</b> | <b>CONFIGURATIONS NECESSARY TO GUARANTEE GRADE 2 CERTIFICATION<br/>ACCORDING TO EN 50131-1 (SP2-DP1)</b> | <b>45</b> |
| BOXSTANDARD                                                                                                    | 11        | Keypads                                                                                                  | 45        |
| BOXMETAL                                                                                                       | 11        | Touch keypads                                                                                            | 45        |
| CONTROL PANEL BOARDS PCBVEDO10, PCBVEDO34, PCBVEDO68, PCBVEDO200                                               | 11        | App account                                                                                              | 45        |
| INTERNAL EXPANSIONS                                                                                            | 13        | Home automation system manager                                                                           | 45        |
| Standard PSTN: Telephone dialler functions                                                                     | 13        | Input/output expansion devices (BIBO)                                                                    | 45        |
| VEDOVOICE: Messages and Voice control expansion module                                                         | 14        | Power supply stations                                                                                    | 45        |
| VEDOGSM: GSM communication expansion module                                                                    | 14        | Isolators                                                                                                | 45        |
| VEDOGSM4G: GSM communication expansion module                                                                  | 17        | Radio expansion                                                                                          | 45        |
| VEDOIP/VEDOIPA: TCP/IP Ethernet expansion module                                                               | 19        | Radio outputs                                                                                            | 45        |
| VEDOWIFI: Wi-Fi communication board                                                                            | 20        | Radio controls                                                                                           | 46        |
| GENERAL INFORMATION ABOUT CONNECTING DEVICES TO THE BUS                                                        | 21        | Radio zones                                                                                              | 46        |
| WIRING THE INPUTS                                                                                              | 22        | Wired zones                                                                                              | 46        |
| CONTROL AND DISPLAY COMPONENTS                                                                                 | 23        | Areas                                                                                                    | 46        |
| VEDOKP / VEDOKP200: LCD keypads                                                                                | 23        | Wired outputs                                                                                            | 46        |
| VEDOKPR / VEDOKPR200: keypads with RFID key reader                                                             | 23        | User                                                                                                     | 47        |
| VEDO5TPR / VEDO5TPRW: keypad with 5-inch touchscreen display and RFID key reader                               | 25        | Installers                                                                                               | 47        |
| VEDOLCD: LCD keypad                                                                                            | 26        | IP Options                                                                                               | 47        |
| VEDOLCDPROX: keypad with RFID key reader                                                                       | 26        | GSM settings                                                                                             | 47        |
| VEDOPROX / VEDOPROXA: RFID proximity reader on bus                                                             | 26        | Transmission options                                                                                     | 47        |
| SK9050x/A: RFID keys                                                                                           | 27        | Phone book / email contacts                                                                              | 47        |
| EXPANSIONS ON 485 BUS                                                                                          | 27        | Digital dialler contacts list                                                                            | 47        |
| Plastic expansion housing                                                                                      | 27        | Generic events                                                                                           | 48        |
| VEDO8I8O / VEDO8I8OA: Expansion on bus                                                                         | 27        | Detailed events                                                                                          | 48        |
| RF10VEDO / RF32VEDO: Bidirectional radio expansion on bus                                                      | 29        | Service voice messages                                                                                   | 49        |
| Wireless sensors and accessories                                                                               | 30        | Timer Types                                                                                              | 49        |
| PCBPSU: Power supply card on bus                                                                               | 30        | Timer Model                                                                                              | 49        |
| VEDOISO: Isolator on bus                                                                                       | 31        | System parameters                                                                                        | 49        |
| OUTPUTS: SOUNDER CONNECTION EXAMPLES                                                                           | 32        | Events to Save                                                                                           | 50        |
| Connecting a self-powered sounder with 3 or 2 wires                                                            | 33        | Configurations necessary to guarantee INCERT certification                                               | 51        |
| Connecting a non-self-powered indoor sounder                                                                   | 33        | Code type                                                                                                | 51        |
| 2-wire connection of indoor sounder and self-powered sounder with sounder fault zone and sounder sabotage zone | 33        | System parameters                                                                                        | 51        |
| 2-wire connection of self-powered sounder with sounder fault zone and sounder sabotage zone                    | 33        | <b>OFFICIAL SYMBOL CONVENTIONS FOR ANTI-INTRUSION SYSTEMS</b>                                            | <b>51</b> |
| 3-wire connection of self-powered sounder with sounder fault zone and sounder sabotage zone                    | 33        | <b>SHIELDED CABLE CONDUCTOR RESISTANCE TABLE</b>                                                         | <b>51</b> |
| EXAMPLE OF CONNECTION TO OUTPUTS TC1 AND TC2                                                                   | 33        | Input and signal connections                                                                             | 51        |
|                                                                                                                |           | Power supply connections                                                                                 | 52        |
| <b>Mounting instructions</b>                                                                                   | <b>34</b> | <b>DATA NETWORK CONNECTION CABLE</b>                                                                     | <b>52</b> |
| BOXSTANDARD                                                                                                    | 34        |                                                                                                          |           |
| Opening the housing                                                                                            | 34        |                                                                                                          |           |
| Preparation                                                                                                    | 34        |                                                                                                          |           |
| Wall mounting the housing                                                                                      | 35        |                                                                                                          |           |
| Fitting control panel board PCBVEDO10, PCBVEDO34, PCBVEDO68, PCBVEDO200, PCBPSU                                | 35        |                                                                                                          |           |
| Fitting expansion VEDO8I8O/VEDO8I8OA and RF10VEDO, RF32VEDO                                                    | 35        |                                                                                                          |           |
| Fitting power supply unit PSU15/PSU25                                                                          | 35        |                                                                                                          |           |
| BOXMETAL                                                                                                       | 36        |                                                                                                          |           |
| Opening the housing                                                                                            | 36        |                                                                                                          |           |
| Wall mounting the housing                                                                                      | 36        |                                                                                                          |           |
| Fitting control panel board PCBVEDO10 / PCBVEDO34 / PCBVEDO68 / PCBVEDO200 and PCBPSU                          | 37        |                                                                                                          |           |
| Fitting expansion device VEDO8I8O/VEDO8I8OA                                                                    | 37        |                                                                                                          |           |
| Fitting power supply unit PSU15, PSU25, PSU50                                                                  | 37        |                                                                                                          |           |
| Fitting battery 30076003 / 30076004                                                                            | 37        |                                                                                                          |           |

# Introduction to the system

**Vedo** is a modern, practical I&HAS (Intrusion and Hold Up alarm system) capable of meeting the technical and performance requirements of modern security systems to the best effect. The Vedo system allows the creation of systems that require up to 200 individual standard zones with double or triple balance, which can be assigned to a maximum of 16 areas. The system integrates home automation functions that do not influence the behaviour of the alarm system.

## Description of system components

The control panel is enclosed in a compact housing, which also accommodates the power supply unit. Depending on system requirements, the control panel board itself can be fitted with a module for GSM communication, a message / voice control module and a module for communication over IP protocol. The connectors for powering the control panel are routed from the power supply unit.

Inside the metal housings it is possible to accommodate 2 standard input/output expansions. The plastic housings can accommodate 2 VEDO8I8O / VEDO8I8OA expansion modules or 1 VEDO8I8O / VEDO8I8OA expansion module and 1 RF10VEDO or RF32VEDO radio expansion device. The expansion modules are connected to the bus.

The system comprises a master unit (the control panel) and a certain number of slave units (the peripherals on the bus). Regardless of system activation status, the control panel's task is to query the peripheral units periodically to determine correct operation and obtain information about system status. Each peripheral component is equipped with local intelligence, which enables it to perform a certain number of tasks independently and, at the request of the control panel, communicate its status and any information relating to its specific peripheral functions.

## COMMUNICATION STANDARD

Communication between the control panel and the expansions takes place by means of a standard RS485 Bus. The control panel's standard communication speed is set to 38400 baud.

## MODULE ADDRESSES

The modules are all connected to the same Bus, and are recognisable by their unique address. This address, depending on the peripheral, can be configured physically (e.g.: DIP-switches, as with the input and output expansion devices) or via software configuration (e.g.: LCD keypads).

**IMPORTANT: no two components of the same type and with the same logical address must be present on the bus. For example, there cannot be two or more keypads with the same address. Should this happen, the system will be unable to function correctly and will generate a bus error.**

## General

The control panel is supplied with a built-in digital dialler.

The control panel can be programmed directly from the keypad or, more easily, by means of dedicated software. The audio messages can be modified only by using the programming software from a PC.

The association of zones to areas and partial subgroups of areas allows total, partial or selective activation of the system, according to the authorisations assigned (at the configuration stage) to the user who performs the operations.

Each input event can be associated with multiple outputs, thus potentially involving all the outputs configured at the installation stage. The flexibility of this arrangement makes it possible to adapt the control panel to the most wide-ranging requirements.

## MAIN SYSTEM SPECIFICATIONS

### INPUTS / OUTPUTS / BALANCING

|                                                  | VEDO10                                                   | VEDO34                                                                                         | VEDO34M    | VEDO68                | VEDO68M               | VEDO200        | VEDO200M       |
|--------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------|------------|-----------------------|-----------------------|----------------|----------------|
| <b>Control panel inputs</b>                      | 8 + 1 24h                                                |                                                                                                |            |                       |                       |                |                |
| <b>Maximum number of inputs</b>                  | 18<br>(max. 10 wired + 8 radio; max. 16 radio + 2 wired) | 34 (mixed)                                                                                     | 34 (mixed) | 68<br>(max. 64 radio) | 68<br>(max. 64 radio) | 200<br>(mixed) | 200<br>(mixed) |
| <b>Control panel outputs</b>                     | 3: 1 relay 3A@24 V + 2oc 100 mA                          |                                                                                                |            |                       |                       |                |                |
| <b>Maximum number of outputs (wired + radio)</b> | 16                                                       | 36                                                                                             | 36         | 50                    | 50                    | 100            | 100            |
| <b>Dual Function</b>                             | No                                                       | Yes                                                                                            | Yes        | Yes                   | Yes                   | Yes            | Yes            |
| <b>Balance type</b>                              | NO, NC, Single, Double, Triple, Triple with jamming      | NO, NC, Single, Double, Triple, Triple with jamming, Double zone, Double zone with end of line |            |                       |                       |                |                |

### PROGRAMMING / MAINTENANCE

|                                                                           | VEDO10                 | VEDO34 | VEDO34M | VEDO68 | VEDO68M | VEDO200 | VEDO200M |
|---------------------------------------------------------------------------|------------------------|--------|---------|--------|---------|---------|----------|
| <b>Programming/reading of options in local/ remote mode</b>               | Yes                    |        |         |        |         |         |          |
| <b>Control panel programming</b>                                          | USB/LAN                |        |         |        |         |         |          |
| <b>Programming via keypad or VEDO5TPR/ VEDOTOUCH with emulated keypad</b> | Yes                    |        |         |        |         |         |          |
| <b>Programmable test call</b>                                             | Yes                    |        |         |        |         |         |          |
| <b>Remote maintenance</b>                                                 | Yes with IP card       |        |         |        |         |         |          |
| <b>Periodic test call</b>                                                 | Yes on digital dialler |        |         |        |         |         |          |

## USER CODES / KEYS / REMOTE CONTROLS

|                   | VEDO10 | VEDO34 | VEDO34M | VEDO68 | VEDO68M | VEDO200 | VEDO200M |
|-------------------|--------|--------|---------|--------|---------|---------|----------|
| User code         | 8      | 32     | 32      | 50     | 50      | 200     | 200      |
| Installer code    | 2      | 5      | 5       | 5      | 5       | 5       | 5        |
| Manufacturer Code | 1      |        |         |        |         |         |          |
| Remote controls   | 11     | 38     | 38      | 56     | 56      | 64      | 64       |
| Keys              | 11     | 38     | 38      | 56     | 56      | 200     | 200      |

## COMPATIBLE DEVICES / NUMBER OF DEVICES SUPPORTED

|                                                                                     | VEDO10                                                          | VEDO34                                                          | VEDO34M                                                         | VEDO68                                                          | VEDO68M                                                         | VEDO200                                                         | VEDO200M                                                        |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| Plastic housing                                                                     | Yes                                                             | Yes                                                             | No                                                              | Yes                                                             | No                                                              | Yes                                                             | No                                                              |
| Metal housing                                                                       | No                                                              | No                                                              | Yes                                                             | No                                                              | Yes                                                             | No                                                              | Yes                                                             |
| Power supply unit                                                                   | PSU15<br>PSU25                                                  | PSU15<br>PSU25                                                  | PSU15<br>PSU25<br>PSU50                                         | PSU15<br>PSU25                                                  | PSU15<br>PSU25<br>PSU50                                         | PSU15<br>PSU25                                                  | PSU15<br>PSU25<br>PSU50                                         |
| Maximum number of power supply stations                                             | 2                                                               | 4                                                               | 4                                                               | 8                                                               | 8                                                               | 8                                                               | 8                                                               |
| Number of IN/OUT expansions                                                         | 0                                                               | 8                                                               | 8                                                               | 12                                                              | 12                                                              | 50                                                              | 50                                                              |
| RFID readers                                                                        | 2                                                               | 8                                                               | 8                                                               | 8                                                               | 8                                                               | 16                                                              | 16                                                              |
| Keypads / Keypads with proximity reader                                             | 2 (min. 1)*                                                     | 8 (min 1)*                                                      | 8 (min 1)*                                                      | 8 (min. 1) **                                                   | 8 (min. 1) **                                                   | 16 (min. 1)**                                                   | 16 (min. 1)**                                                   |
| VEDO5TPR/Vedo Touch with proximity reader                                           | 1                                                               | 2                                                               | 2                                                               | 4 **                                                            | 4 **                                                            | 4**                                                             | 4 **                                                            |
| Touch Devices (Mini Touch, Planux Manager, Icona Manager ViP with proximity reader) | 1                                                               | 2                                                               | 2                                                               | 8 **                                                            | 8 **                                                            | 8 **                                                            | 8 **                                                            |
| Radio receivers                                                                     | 1                                                               | 2                                                               | 2                                                               | 3                                                               | 3                                                               | 8                                                               | 8                                                               |
| Plug-in audio module                                                                | Yes                                                             |                                                                 |                                                                 |                                                                 |                                                                 |                                                                 |                                                                 |
| Voice menu command interface                                                        | Yes                                                             |                                                                 |                                                                 |                                                                 |                                                                 |                                                                 |                                                                 |
| Plug-in GSM module                                                                  | Yes                                                             |                                                                 |                                                                 |                                                                 |                                                                 |                                                                 |                                                                 |
| Plug-in TCP/IP module                                                               | Yes                                                             |                                                                 |                                                                 |                                                                 |                                                                 |                                                                 |                                                                 |
| Integrated interface PSTN                                                           | Yes                                                             |                                                                 |                                                                 |                                                                 |                                                                 |                                                                 |                                                                 |
| Phone app                                                                           | 12 users + 4 installers (8 users with FW vers. 2.12.x or lower) | 12 users + 4 installers (8 users with FW vers. 2.12.x or lower) | 12 users + 4 installers (8 users with FW vers. 2.12.x or lower) | 28 users + 4 installers (8 users with FW vers. 2.12.x or lower) | 28 users + 4 installers (8 users with FW vers. 2.12.x or lower) | 28 users + 4 installers (8 users with FW vers. 2.12.x or lower) | 28 users + 4 installers (8 users with FW vers. 2.12.x or lower) |

\* we recommend installing at least one keypad (art. VEDOKP, VEDOKP200, VEDOKPR, VEDOKPR200, VEDOLCD, VEDOLCDPROX)

\*\* If 20 or more control devices are active, we recommend setting the BUS speed to 115200.

## ACTIVATIONS

|                                                                          | VEDO10                                                                                                                                        | VEDO34 | VEDO34M | VEDO68 | VEDO68M | VEDO200 | VEDO200M |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|--------|---------|---------|----------|
| Areas                                                                    | 2                                                                                                                                             | 8      | 8       | 8      | 8       | 16      | 16       |
| Area activation modes                                                    | 4 (Total, partial 1, partial 2, partial 1+2)                                                                                                  |        |         |        |         |         |          |
| Partial Activations                                                      | 2                                                                                                                                             |        |         |        |         |         |          |
| Activation Programs (Scenarios)                                          | 8                                                                                                                                             | 8      | 8       | 16     | 16      | 32      | 32       |
| Programmable Auto Activation/Deactivation                                | Yes                                                                                                                                           |        |         |        |         |         |          |
| Auto-activation Models (Public Holidays + Schedules)                     | 30                                                                                                                                            |        |         |        |         | 60      | 60       |
| Area Exclusion for Patrol function with automatic or manual reactivation | Yes                                                                                                                                           |        |         |        |         |         |          |
| Timer                                                                    | 4                                                                                                                                             | 16     | 16      | 16     | 16      | 32      | 32       |
| Accepts commands from telephone with tone dialling or by SMS             | Activation/Deactivation, activation/deactivation of zones, outputs, timers, Status interrogation of individual Areas and Zones), stop alarms. |        |         |        |         |         |          |

## NOTIFICATIONS

|                                                                  | VEDO10                                                                                                                                                                                                                                                        | VEDO34 | VEDO34M | VEDO68 | VEDO68M | VEDO200                        | VEDO200M |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|--------|---------|--------------------------------|----------|
| Alert options in accordance with EN50131-1                       | Type B: one self-powered sounder + PSTN or GSM or IP dialler<br>Type C: two active diallers, either PSTN or GSM or IP<br>Type D: one self-powered sounder + one active GSM or IP dialler<br>Type F: one self-powered sounder + two active GSM and IP diallers |        |         |        |         |                                |          |
| Text-to-Speech audio messages<br>general events)                 | 20                                                                                                                                                                                                                                                            | 32     | 32      | 48     | 48      | 48                             | 48       |
| Audio message                                                    | 1020 minutes                                                                                                                                                                                                                                                  |        |         |        |         |                                |          |
| Built-in digital dialler                                         | Yes                                                                                                                                                                                                                                                           |        |         |        |         |                                |          |
| Voice, SMS and MMS telephone numbers                             | 16                                                                                                                                                                                                                                                            |        |         |        |         |                                |          |
| Digital telephone numbers                                        | 4                                                                                                                                                                                                                                                             |        |         |        |         |                                |          |
| Email addresses                                                  | 16                                                                                                                                                                                                                                                            |        |         |        |         |                                |          |
| Event memory (in compliance with EN 50131-1)                     | 1024 events with date and time                                                                                                                                                                                                                                |        |         |        |         | 4096 events with date and time |          |
| Additional event log                                             | 1024 events with date and time                                                                                                                                                                                                                                |        |         |        |         | 4096 events with date and time |          |
| SMS and for Alarm monitoring centres                             | Yes                                                                                                                                                                                                                                                           |        |         |        |         |                                |          |
| Supports the CONTACT ID protocol                                 | Yes                                                                                                                                                                                                                                                           |        |         |        |         |                                |          |
| Supports SIA protocol (Level 1)                                  | Yes                                                                                                                                                                                                                                                           |        |         |        |         |                                |          |
| Supports SIA-DC-09 protocol<br>(send events over TCP-IP channel) | Yes                                                                                                                                                                                                                                                           |        |         |        |         |                                |          |
| Priority in processing and indicating signals                    | 1) Alarm Events, 2) Sabotage, 3) Malfunctions, 4) Exclusions, 5) Other events<br>In the telephone options the message sending priority can be set                                                                                                             |        |         |        |         |                                |          |

## VARIOUS FUNCTIONS COMMON TO ALL CONTROL PANELS

- Up to 10 simultaneous connections
- Telephone access via sounder or dialler
- Telephone line status check
- Skip Answerer
- Possibility of sharing the telephone line with another answering device
- Integrated voice calls (Text To Speech)
- Telephone voice control, with remote DTMF management
- Possibility of downloading pre-recorded Text to Speech voice messages
- Function keys for alarm calls and rapid activations (available on keypad, Mini Touch, Planux Manager, and App)
- Event transmission in Contact ID and SIA (Level 1) format

## ADDITIONAL FUNCTIONS WITH GSM MODULE ART. VEDOGSM, VEDOGSM3G, VEDOGSM4G

- GSM850, EGSM900, DCS1800, PCS 1900 (with art. VEDOGSM)
- EGSM900, DCS1800, UMTS2100, UMTS1900, UMTS900, UMTS850 (with art. VEDOGSM3G)
- GSM/GPRS channel support (with art. VEDOGSM)
- GSM/GPRS/UMTS/HSPA channel support (with art. VEDOGSM3G)
- GSM/GPRS/UMTS/USPA/LTE channel support (with art. VEDOGSM4G)
- Main or reserve telephone dialler
- Indication of alarms/malfunctions/sabotage/events via SMS
- Customisable SMS messages
- Control panel status interrogation via SMS
- Checking residual credit of the prepaid SIM
- Transmission of Voice Messages via GSM
- Event transmission in Contact-ID and SIA (Level 1) format via GSM and over TCP-IP (SIA-DC-09 protocol support)
- Event transmission by email with images
- Event transmission by MMS

## ADDITIONAL FUNCTIONS WITH IP MODULE ART. VEDOIP

- Ethernet interface
- Event transmission in Contact-ID and SIA (Level 1) format over TCP-IP (SIA-DC-09 protocol support)
- Programming and Monitoring of the control panel via LAN using Safe Manager
- Programming and Monitoring of the control panel via Internet using Safe Manager
- Control panel management via Internet using Vedo App
- Event alert via email and on Vedo App with alerts with proprietary protocol
- Alert by email for alarms/malfunctions/sabotage/events with images

## ATS CATEGORIES BASED ON CONFIGURATIONS

The Vedo control panels equipped with transmission devices (integrated or optional extras) listed in the table below are SPTs (Supervised Premises Transceiver) which interface with the alarm system and transmit alarms via various networks.

| Primary interface               | SPT CONFIGURATION |                                   |                               | ATS CATEGORY |           |
|---------------------------------|-------------------|-----------------------------------|-------------------------------|--------------|-----------|
|                                 | PCBVEDOXX(PSTN)   | VEDOGSM<br>VEDOGSM3G<br>VEDOGSM4G | VEDOIP<br>VEDOIPA<br>VEDOWIFI | SINGLE PATH  | DUAL PATH |
| <b>PSTN</b>                     | ✓                 |                                   |                               | SP2          |           |
| <b>PSTN or GSM</b>              | ✓                 | ✓                                 |                               | SP2          | DP1       |
| <b>PSTN or email IP</b>         | ✓                 |                                   | ✓                             | SP2          | DP1       |
| <b>PSTN or GSM or email IP</b>  |                   | ✓                                 | ✓                             | SP2          | DP1       |
| <b>GSM</b>                      |                   | ✓                                 |                               | SP2          |           |
| <b>email IP</b>                 |                   |                                   | ✓                             | SP2          |           |
| <b>GSM or email IP</b>          |                   | ✓                                 | ✓                             | SP2          | DP1       |
| <b>DIGIT. GSM DIALLER</b>       |                   | ✓                                 |                               | SP4 **       |           |
| <b>DIGIT. IP DIALLER</b>        |                   |                                   | ✓                             | SP4 **       |           |
| <b>DIGIT. GSM or IP DIALLER</b> |                   | ✓                                 | ✓                             | SP4 **       | DP3 **    |

\*\* with SIA-DCS IP or Contact ID IP, with encryption key and transmission time ≤ 3 min.

## POWER SUPPLY UNIT TECHNICAL SPECIFICATIONS



Technical specifications complying with EN 50131-6, the new standard establishing the required performance levels of a power supply unit in alarm systems.

|                                                                                                                                        | VEDO10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | VEDO34                     | VEDO34M                                                       | VEDO68                     | VEDO68M                                                       | VEDO200                    | VEDO200M                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------|----------------------------|---------------------------------------------------------------|----------------------------|---------------------------------------------------------------|
| <b>Dimensions WxHxD (mm)</b>                                                                                                           | 260 x 280 x 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 260 x 280 x 80             | 440 x 315 x 95                                                | 260 x 280 x 80             | 440 x 315 x 95                                                | 260 x 280 x 80             | 440 x 315 x 95                                                |
| <b>Weight without battery (g)</b>                                                                                                      | 1313                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1313                       | 3845 (with PSU15/PSU25)<br>4039 (with PSU50)                  | 1313                       | 3845 (with PSU15/PSU25)<br>4039 (with PSU50)                  | 1313                       | 3845 (with PSU15/PSU25)<br>4039 (with PSU50)                  |
| <b>Power supply units supported</b>                                                                                                    | PSU15<br>PSU25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PSU15<br>PSU25             | PSU15<br>PSU25<br>PSU50                                       | PSU15<br>PSU25             | PSU15<br>PSU25<br>PSU50                                       | PSU15<br>PSU25             | PSU15<br>PSU25<br>PSU50                                       |
| <b>Batteries supported</b>                                                                                                             | Art. 30076003<br>12 V/7 Ah                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Art. 30076003<br>12 V/7 Ah | Art. 30076003<br>12 V/7 Ah<br>Art. 30076004<br>12 V and 18 Ah | Art. 30076003<br>12 V/7 Ah | Art. 30076003<br>12 V/7 Ah<br>Art. 30076004<br>12 V and 18 Ah | Art. 30076003<br>12 V/7 Ah | Art. 30076003<br>12 V/7 Ah<br>Art. 30076004<br>12 V and 18 Ah |
| <b>Max. battery charging current</b>                                                                                                   | 0.8A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Battery 80% charging time</b>                                                                                                       | 8h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8h                         | 8h/19h                                                        | 8h                         | 8h/19h                                                        | 8h                         | 8h/19h                                                        |
| <b>Low Battery Fault Generation in presence of EPS</b>                                                                                 | 12 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Low Battery Fault Generation in absence of EPS</b>                                                                                  | 11.5 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Low output voltage fault on power supply unit</b>                                                                                   | 12.8 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Control panel switch-off in absence of EPS for Protection against deep discharges (the battery is disconnected to avoid damage)</b> | 10.5 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Maximum current for V+SIR outputs</b>                                                                                               | 0.75A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Intervention voltage of the protection against voltage surges: battery disconnection</b>                                            | 15 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Maximum current for V+bus,V+AUX outputs</b>                                                                                         | 1.5A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Output voltage operating range (Vbus, VAUX1, VAUX2)</b>                                                                             | 10 ~ 15 V $\overline{\text{---}}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>CN1 input voltage operating range</b>                                                                                               | 12.8 - 15 V $\overline{\text{---}}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>CN2 input voltage operating range (Battery)</b>                                                                                     | 10.5 - 15 V $\overline{\text{---}}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Control panel board absorption and related plug-in expansion devices (min./max.)</b>                                                | <b>PCBVEDOxx main board on standby only:</b> 50 mA<br><b>PCBVEDOxx main board only with all active outputs:</b> + 40mA<br><b>PCBVEDOxx main board only with PSTN active and communicating:</b> + 35mA<br><b>VEDOVOICE:</b> 1 mA<br><b>VEDOGSM (protocol &lt; 9904XX):</b> 10 mA idle, 35 mA when communicating<br><b>VEDOGSM (protocol &gt;= 9904XX):</b> 10 mA idle, 60 mA when communicating<br><b>VEDOGSM3G:</b> 10 mA idle, 90 mA when communicating<br><b>VEDOGSM4G:</b> 36 mA idle, 80 mA when communicating<br><b>VEDOIP:</b> 50 mA idle, 55 mA when communicating<br><b>VEDOIPA:</b> 80 mA idle, 90 mA when communicating<br><b>VEDOWIFI:</b> 75 mA idle, 100 mA when communicating                                                                                                                                       |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Average power consumption in 1 hour</b>                                                                                             | <b>PCBVEDOxx</b> 90 mAh 1 alarm every 5 minutes and communication with duration of 3 minutes<br><b>VEDOGSM (protocol &lt; 9904XX)</b> 24 mAh 1 alarm every 5 minutes and communication with duration of 2 minutes<br><b>VEDOGSM (protocol &gt;= 9904XX)</b> 20 mAh 1 alarm every 5 minutes and communication with duration of 1 minute<br><b>VEDOGSM3G:</b> 26 mAh 1 alarm every 5 minutes and communication with duration of 1 minute<br><b>VEDOGSM4G:</b> 43 mAh 1 alarm every 5 minutes and communication with duration of 1 minute<br><b>VEDOIP:</b> 55 mAh 1 alarm every 5 minutes and communication with duration of 1 minute<br><b>VEDOIPA:</b> 90 mAh 1 alarm every 5 minutes and communication with duration of 1 minute<br><b>VEDOWIFI:</b> 100 mAh 1 alarm every 5 minutes and communication with duration of 1 minute |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Maximum absorption with all expansion devices active (audio module, IP module, GSM module)</b>                                      | <b>Control panel in alarm status:</b><br>276mA (with VEDOIPA and VEDOGSM - with protocol >= 9904XX)<br>296mA (with VEDOIPA and VEDOGSM4G)<br>286mA (with VEDOWIFI and VEDOGSM - with protocol >= 9904XX)<br>306mA (with VEDOWIFI and VEDOGSM4G)<br><b>Control panel in standby:</b><br>141mA (with VEDOIPA and VEDOGSM - with protocol >= 9904XX)<br>167mA (with VEDOIPA and VEDOGSM4G)<br>136mA (with VEDOWIFI and VEDOGSM - with protocol >= 9904XX)<br>162mA (with VEDOWIFI and VEDOGSM4G)                                                                                                                                                                                                                                                                                                                                     |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Maximum current available for external devices</b>                                                                                  | Depends on control panel configuration (see table below)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Maximum current delivered to outputs TC1 and TC2</b>                                                                                | 100mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Relay contacts capacity in output switching NO-COM-NC</b>                                                                           | 3A @ 24 V $\overline{\text{---}}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Operating temperature and Operating humidity</b>                                                                                    | -10 °C / + 55 °C with warm dry air<br>-10 °C / + 40 °C with max. + 93% RH (not condensed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Safety grade</b>                                                                                                                    | 2 in compliance with EN 50131-1 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                                                               |                            |                                                               | <b>not certified</b>       |                                                               |
| <b>Type of power supply unit</b>                                                                                                       | TYPE A in compliance with EN 50131-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                               |                            |                                                               |                            |                                                               |
| <b>Environmental class</b>                                                                                                             | II in compliance with EN 50131-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                                                               |                            |                                                               | <b>not certified</b>       |                                                               |

\* Observing any indications for configuration and installation

## MAXIMUM CURRENT AVAILABLE FOR EXTERNAL DEVICES, ON THE BASIS OF THE CONTROL PANEL CONFIGURATION

| POSSIBLE CONFIGURATIONS      |                   |                                                                                                                               |        |        |         |        |         |         |          |
|------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------|--------|--------|---------|--------|---------|---------|----------|
| BATTERY                      | POWER SUPPLY UNIT | MAXIMUM CURRENT                                                                                                               | VEDO10 | VEDO34 | VEDO34M | VEDO68 | VEDO68M | VEDO200 | VEDO200M |
| 30076004<br>12 V and<br>18Ah | PSU25<br>PSU50    | 1453 mA for EN 50131-6<br>800 mA for battery charging<br>720 mA for T031<br>(47mA mean current absorbed by the control panel) |        |        | ✓       |        | ✓       |         | ✓        |
| 30076004<br>12 V and<br>18Ah | PSU15             | 653 mA for EN 50131-6<br>800 mA for battery charging<br>720 mA for T031<br>(47mA mean current absorbed by the control panel)  |        |        | ✓       |        | ✓       |         | ✓        |
| 30076003<br>12 V and<br>7 Ah | PSU15<br>PSU25    | 533 mA for EN 50131-6<br>800 mA for battery charging<br>280 mA for T031<br>(47mA mean current absorbed by the control panel)  | ✓      | ✓      | ✓       | ✓      | ✓       | ✓       | ✓        |
| 30076003<br>12 V and<br>7 Ah | PSU50             | 533 mA for EN 50131-6<br>800 mA for battery charging<br>280 mA for T031<br>(47mA mean current absorbed by the control panel)  |        |        | ✓       |        | ✓       |         | ✓        |



The control panel is certified up to grade 2 according to standard EN 50131-1.

It is possible to maintain grade 2 system certification only if the system consists of components of grade II or higher.

### PRODUCTS CERTIFIED WITH SAFETY GRADE 2 ACCORDING TO STANDARD EN 50131-1:

**Housings:** art. BOXPLASTIC, BOXSTANDARD, BOXMETAL

**Control panel boards:** art. PCBVEDO10, PCBVEDO34, PCBVEDO68

**Internal expansion devices:** art. VEDOVOICE, VEDOGSM, VEDOGSM3G, VEDOGSM4G, VEDOIP, VEDOIPA

**Keypads and insertion devices:** art. VEDOLCD, VEDOLCDPROX, VEDOKP, VEDOKPR

**Expansions on 485 bus:** art. VEDO8I8O, VEDO8I8OA

**Power suppliers:** art. PSU15, PSU25, PSU50

**Isolators:** art. VEDOISO

## POWER SUPPLY UNIT TECHNICAL SPECIFICATIONS

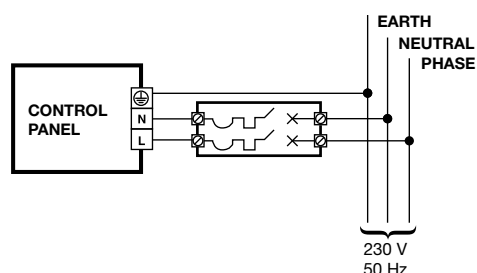


The product complies with standards EN 50130-4, EN 62368-1

|                                              | PSU15                                                                                     | PSU25                | PSU50                |
|----------------------------------------------|-------------------------------------------------------------------------------------------|----------------------|----------------------|
| Name of manufacturer / supplier              | Comelit Group S.p.A.                                                                      | Comelit Group S.p.A. | Comelit Group S.p.A. |
| Dimensions (L x H x D)                       | 78 x 110 x 36 mm                                                                          | 78 x 110 x 36 mm     | 98 x 129 x 40 mm     |
| Weight                                       | 241 g                                                                                     | 241 g                | 435 g                |
| Input voltage                                | 230 V~ + 10% -15%                                                                         |                      |                      |
| AC input frequency                           | 50/60 Hz                                                                                  |                      |                      |
| AC Alternating Current                       | @230 V~ : 0.6A                                                                            | @230V~: 0.7A         | @230 V~ : 1.3A       |
| Output voltage                               | 14.0 V $\pm$ 2%                                                                           | 14.0 V $\pm$ 2%      | 14.0 V $\pm$ 2%      |
| Rated current                                | 1.5A Max                                                                                  | 2.5A Max             | 5A Max               |
| Output voltage ripple                        | 300 mV                                                                                    |                      |                      |
| Voltage surge protection                     | +50%                                                                                      |                      |                      |
| Overload protection                          | 110~180% rated output power                                                               |                      |                      |
| Operating temperature and Operating humidity | -10 °C / + 55 °C with warm dry air<br>-10 °C / + 40 °C with max. + 93% RH (not condensed) |                      |                      |
| Safety grade                                 | 2 according to EN50131-1*                                                                 |                      |                      |
| Environmental class                          | II according to EN50131-1                                                                 |                      |                      |

\* Observing any indications for configuration and installation

## EXAMPLE OF TWO-POLE ISOLATING DEVICE



### WIRING DIAGRAM

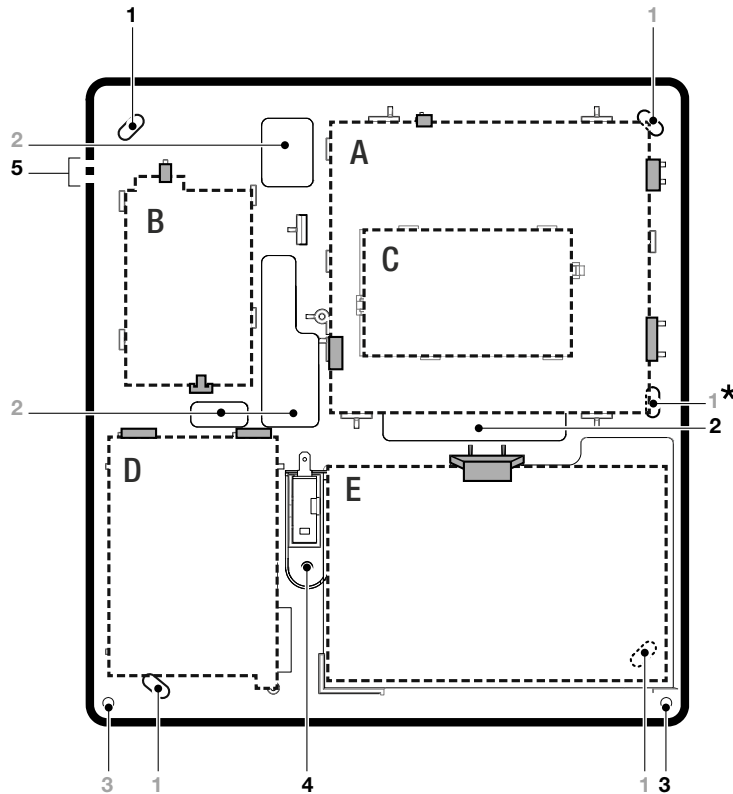
Two-pole mains switch (for example overload circuit breaker with rated current 6A) able to isolate the power supply of the device.

There must be a gap of at least 3 [mm] between the isolating device contacts.

# Identification of parts and separation of circuits

## BOXSTANDARD

### POSITIONING COMPONENTS AND FIXINGS



1. Holes for securing the housing to the wall  
 Mounting instructions on page 34

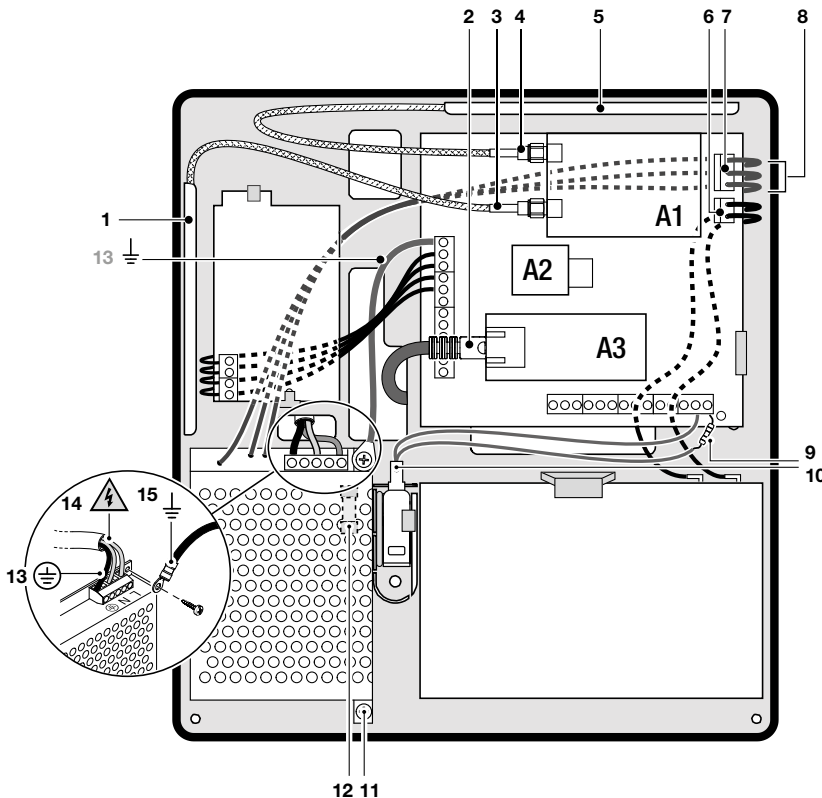
★ Optional

Note: The housing should be secured to the wall using screws and wall anchors.

2. Cable routing holes
3. Cover closure holes
4. Fixing hole for tamper break-out section  
 Clips for fixing the components to the housing  
 Size of the elements that can be fitted to the housing itself
5. Cutouts for antenna outputs

- A. Position of control panel board  
 PCBVEDO10 / PCBVEDO34 / PCBVEDO68 /  
 PCBVEDO200 / PCBPSU.
- B. Position of expansion  
 RF10VEDO / RF32VEDO / VEDO8I80 /  
 VEDO8I80A
- C. Position of expansion VEDO8I80/VEDO8I80A  
 (lower level, behind the control panel board)
- D. Position of power supply unit PSU15 / PSU25
- E. Position of battery 30076003

### ROUTES FOR SEPARATING THE LOW-VOLTAGE CIRCUIT (SELV) AND HIGH-VOLTAGE CIRCUIT



1. Main antenna
2. VEDOIP/VEDOIPA expansion network connector
3. Main antenna connector (art. VEDOGSM /  
 VEDOGSM3G / VEDOGSM4G)
4. Secondary antenna connector  
 (art. VEDOGSM4G)
5. Secondary antenna (art. VEDOGSM4G)
6. Battery connector
7. PSU connector
8. Control panel board power supply  
 connections
9. Balance resistor
10. Tamper connectors
11. Housing for power supply unit PSU15/PSU25  
 fixing screw
12. Internal fuse 250 V~ T2A (for art. PSU15),  
 Internal fuse 250V~ T2A (for art. PSU25),  
 Internal fuse 250V~ T2.5A (for art. PSU50)
13. Cable for connecting the power supply unit  
 PSU15/PSU25 to earth
14. High-Voltage Cables
15. Cable for connecting the control panel board  
 to earth art. PCBVEDO10/PCBVEDO34/  
 PCBVEDO68/PCBVEDO200

- A1. Position of communication module VEDOGSM/  
 VEDOGSM3G/VEDOGSM4G
- A2. Position of messages expansion VEDOVOICE
- A3. Position of IP module VEDOIP/VEDOIPA/VEDOWIFI



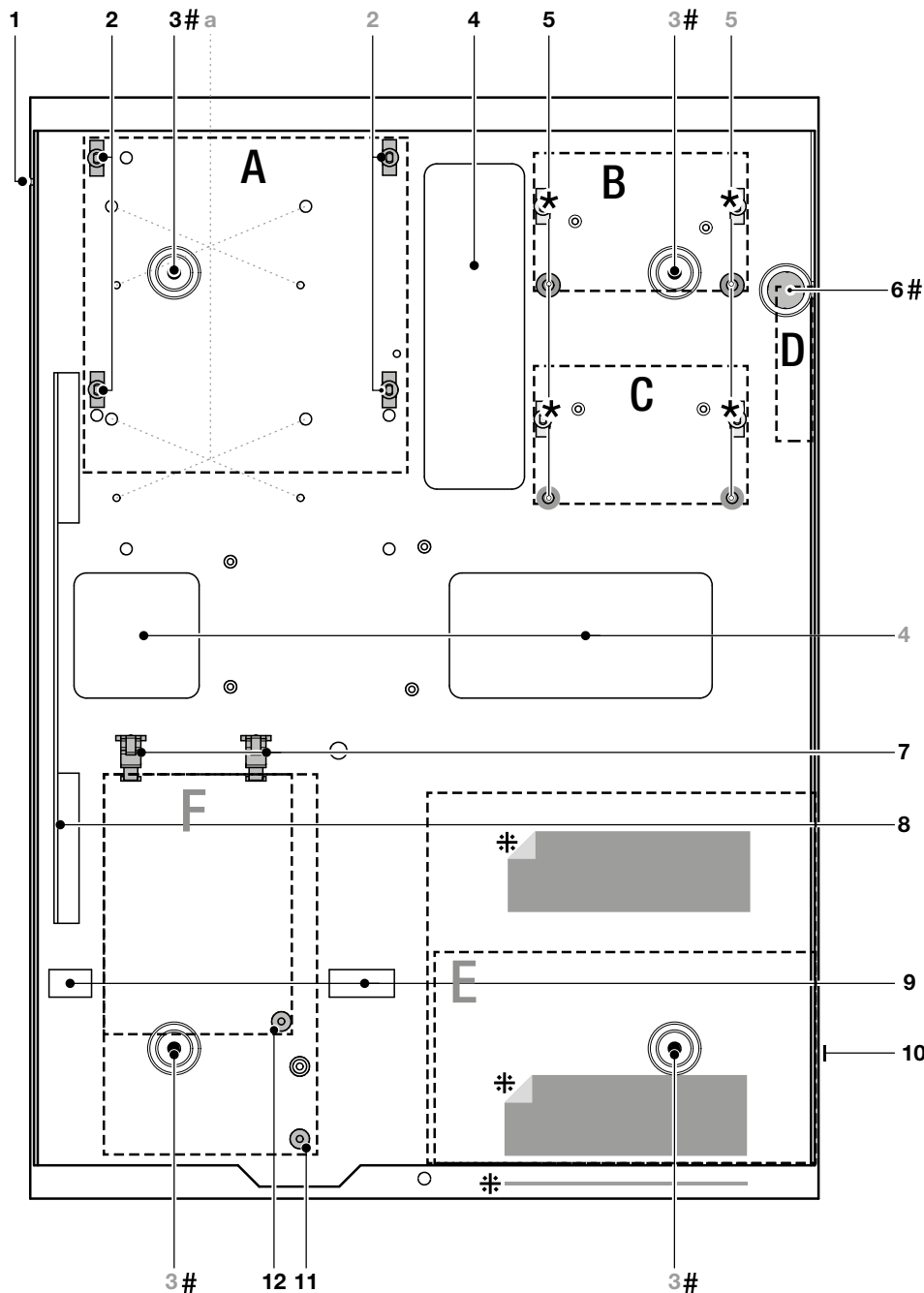
For a compliant installation, pay attention to the correct routing of the grounding cables and the SELV and high voltage circuits.



Install only in indoor environments. Do not block the ventilation or dissipation openings or slots. Access to internal components is permitted only to qualified personnel. Risk of electric shock, proceed with caution and disconnect the power supply before working on internal parts.

# BOXMETAL

## POSITIONING COMPONENTS AND FIXINGS



1. GSM antenna output
2. Supports for fixing control panel board PCBVEDO10 / PCBVEDO34 / PCBVEDO68 / PCBVEDO200 / PCBPSU
3. Holes for securing the housing to the wall
- # Note: The housing should be secured to the wall using screws and wall anchors.
4. Cable routing holes
5. Supports for fixing ★ and holding expansion art. VEDO8I80/ VEDO8I80A
6. Fixing hole for tamper break-out section
7. Supports for fixing power supply unit
8. Anti-sabotage protection panel
9. Inlet holes for power supply unit locking clamp
10. Position of control panel identification label
11. Housing for PSU50 power supply unit fixing screw
12. Housing for PSU15/PSU25 power supply unit fixing screw

- A. Position of control panel board PCBVEDO10 / PCBVEDO34 / PCBVEDO68 / PCBVEDO200 / PCBPSU
- B. Position of expansion device VEDO8I80/VEDO8I80A
- C. Position of expansion device VEDO8I80/VEDO8I80A
- D. Tamper position
- E. Position of battery 30076003 / 30076004
- F. Position of power supply unit PSU15 / PSU50

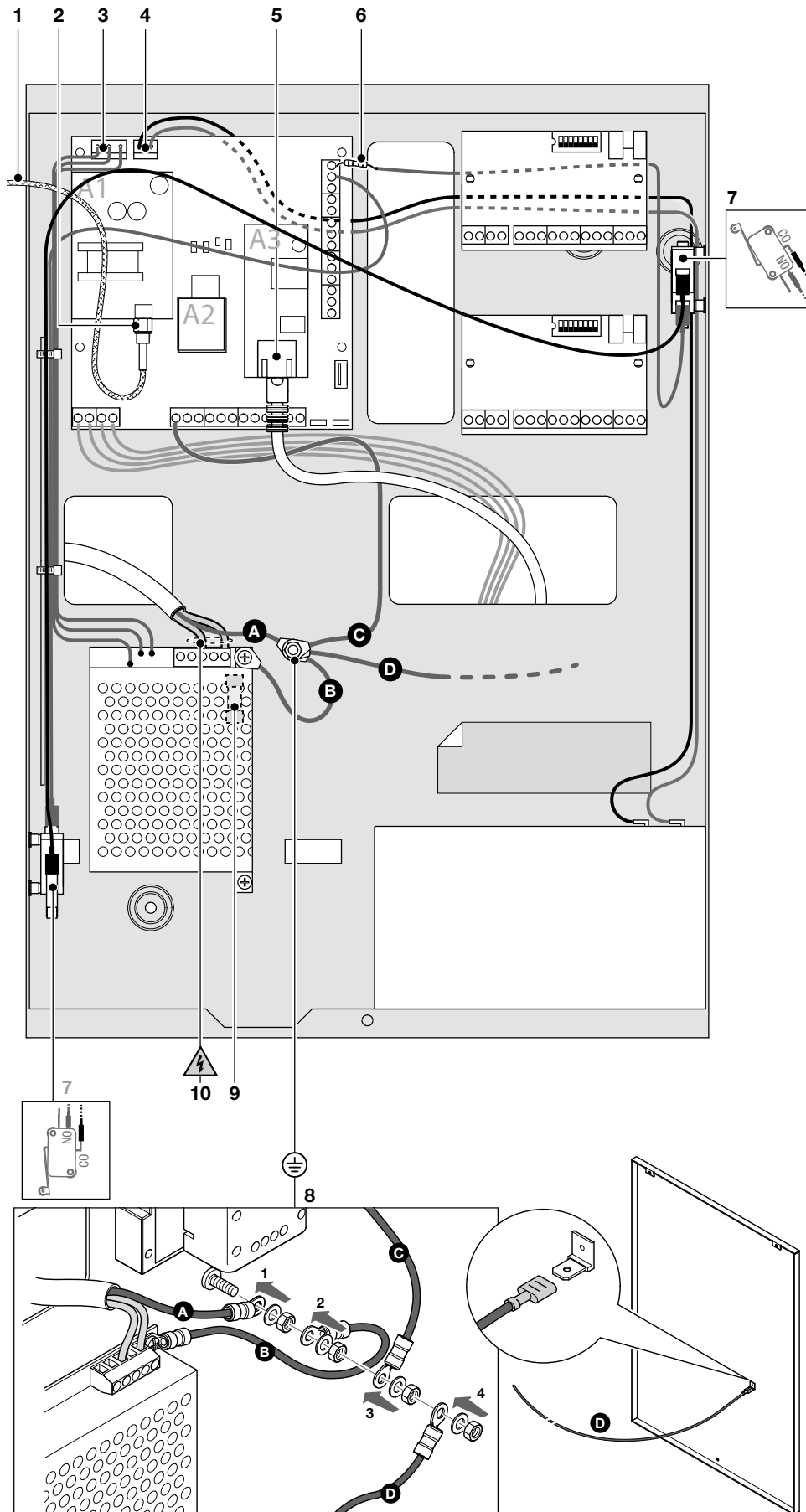
### Optional:

- a. Holes for mounting supports used to secure expansion VEDO8I80/ VEDO8I80A



✱ In order to guarantee system certification, the 7 Ah or 18 Ah battery must be secured to the metal housing with the double-sided tape

## ROUTES FOR SEPARATING THE LOW-VOLTAGE CIRCUIT (SELV) AND HIGH-VOLTAGE CIRCUIT



1. GSM antenna output
2. Expansion antenna connectors VEDOGSM/VEDOGSM3G (1 connector) or VEDOGSM4G (2 connectors)
3. PSU connector
4. Battery connector
5. VEDOIP/VEDOIPA expansion network connector
6. Balance resistor
7. Tamper connectors
8. Earth connection according to standard EN 62368-1
9. Internal fuse 250 V~ T2A (for art. PSU15),  
Internal fuse 250V~ T2A (for art. PSU25),  
Internal fuse 250V~ T2.5A (for art. PSU50)
10. High-voltage cables

- A1.** Position of communication module VEDOGSM / VEDOGSM3G / VEDOGSM4G
- A2.** Position of messages expansion VEDVOICE
- A3.** Position of IP module VEDOIP/ VEDOIPA/VEDOWIFI



For a compliant installation, pay attention to the correct routing of the grounding cables and the SELV and high voltage circuits.



(!) If the entry hole for the network cable is shared with other cables related to the wiring of the control panel (as shown in the image), use a cable for the power supply with double insulation.



Install only in indoor environments. Do not block the ventilation or dissipation openings or slots. Access to internal components is permitted only to qualified personnel. Risk of electric shock, proceed with caution and disconnect the power supply before working on internal parts.

# Technical and installation specifications

## BOXSTANDARD

### TECHNICAL SPECIFICATIONS

|                                              |                                                                                           |
|----------------------------------------------|-------------------------------------------------------------------------------------------|
| Name of manufacturer / supplier              | Comelit Group S.p.A.                                                                      |
| Dimensions (w x h x d)                       | 280 x 260 x 80 mm                                                                         |
| Weight                                       | 706 g (housing + micro switch)                                                            |
| Operating temperature and Operating humidity | -10 °C / + 55 °C with warm dry air<br>-10 °C / + 40 °C with max. + 93% RH (not condensed) |
| Certified safety grade                       | 2 in compliance with EN 50131-1*                                                          |
| Environmental class                          | II in compliance with EN 50131-1                                                          |

\* Observing any indications for installation



The product complies with standards EN 50131-1, EN 50131-3, EN 50131-6, EN 50136-1, EN 50136-2, EN 62368-1, EN 50130-4

### INSTALLATION

Mounting instructions on page 34



A connection to the electrical distribution network must be provided in accordance with regulations.



For standard-compliant installation, prepare the cables and wires required to wire the system as indicated on page 8.

In order to guarantee Grade 2 certification in compliance with EN 50131-1 the tamper must be fitted and configured correctly.



If the control panel is already assembled, you will have to remove the PCBs and the power supply unit from the housing, so as not to risk damaging them.

## BOXMETAL

### TECHNICAL SPECIFICATIONS

|                                              |                                                                                           |
|----------------------------------------------|-------------------------------------------------------------------------------------------|
| Name of manufacturer / supplier              | Comelit Group S.p.A.                                                                      |
| Dimensions (w x h x d)                       | 315 x 440 x 95 mm                                                                         |
| Weight                                       | 3234 g                                                                                    |
| Operating temperature and Operating humidity | -10 °C / + 55 °C with warm dry air<br>-10 °C / + 40 °C with max. + 93% RH (not condensed) |
| Certified safety grade                       | 2 in compliance with EN 50131-1*                                                          |
| Environmental class                          | II in compliance with EN 50131-1                                                          |

\* Observing any indications for installation



The product complies with standards EN 50131-1, EN 50131-3, EN 50131-6, EN 50136-1, EN 50136-2, EN 62368-1, EN 50130-4

### INSTALLATION

Mounting instructions on page 36



A connection to the electrical distribution network must be provided in accordance with regulations.

For a compliant installation, prepare the cables and conductors required for the system wiring as indicated on page 9 and page 10.



In order to guarantee grade 2 certification in compliance with EN 50131-1 the tamper must be fitted and configured correctly.

## CONTROL PANEL BOARDS

### PCBVEDO10, PCBVEDO34, PCBVEDO68, PCBVEDO200

The control panel board is available in 4 versions with different features; see the table on page 3 for the detailed features of the control panels VEDO10, VEDO34, VEDO68, VEDO200, VEDO34M, VEDO68M, VEDO200M which include the respective control panel boards (PCBVEDO10, PCBVEDO34, PCBVEDO68, PCBVEDO200)

The board has a basic configuration with 8 freely programmable zones + 1 sabotage zone. It has a relay output, which by default manages the sounders, and 2 low-consumption programmable outputs.

The control panel board is supplied with a built-in digital dialler, which allows the transmission of voice messages by means of an additional audio/voice control module.

It is equipped with 8 standard wired zones and one anti-tamper zone. It also has one relay output and 2 configurable 100 mA open-collector outputs.

The association of zones to areas and partial subgroups of areas allows total, partial or selective activation of the system, according to the authorisations assigned at the configuration stage to the user who performs the operations.

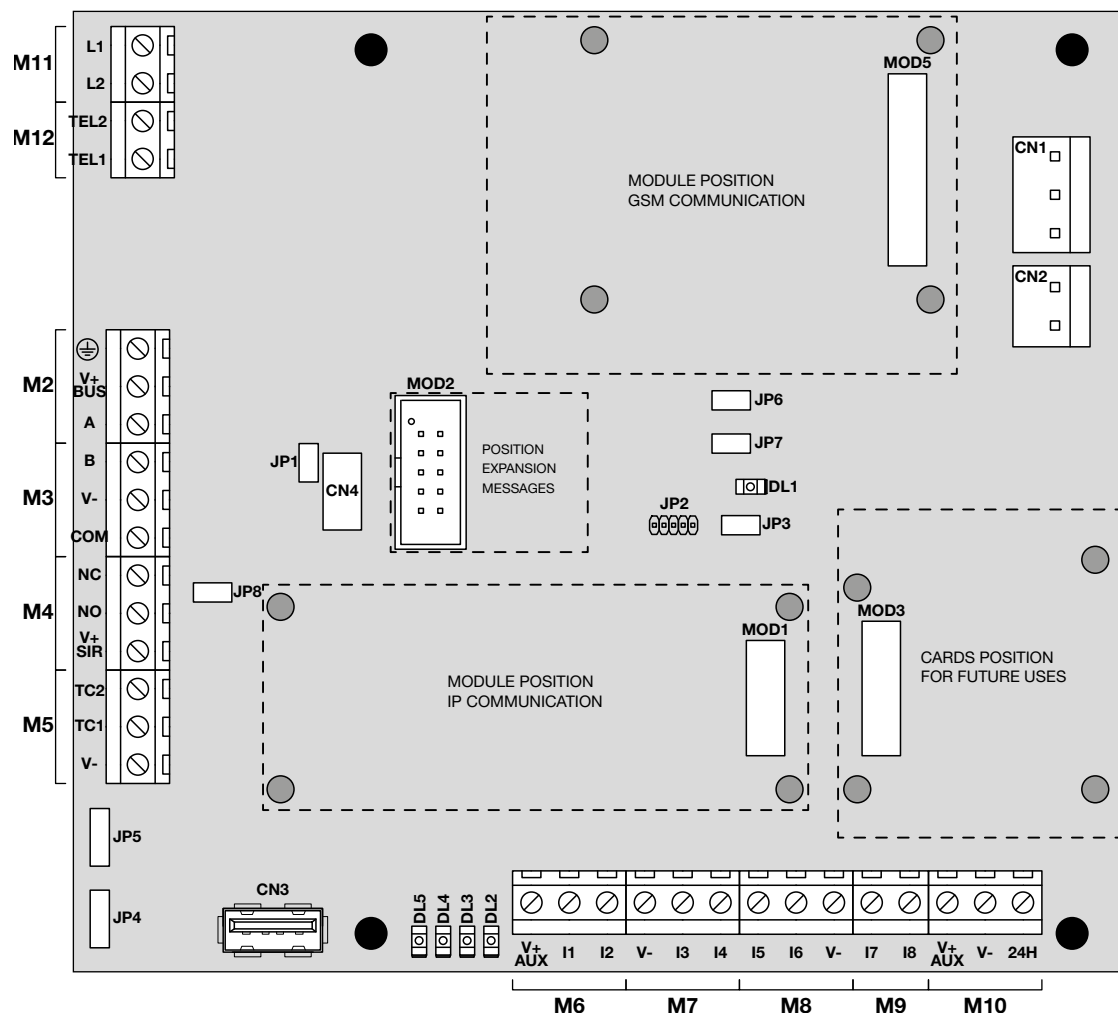
Each input event can be associated with multiple outputs, thus potentially involving all the outputs configured at the installation stage. The flexibility of this arrangement makes it possible to adapt the control panel to the most wide-ranging requirements.



Products PCBVEDO10, PCBVEDO34 and PCBVEDO68 conform to standards EN50131-1 and EN50131-3

### MAIN FEATURES

- 0.75A / 13.8 V self-resettable fuse for protecting the power supply to the sounder outputs
- 1.5A / 13.8 V self-resettable fuse for protecting the power supply to the RS485 buses
- 1.5A / 13.8 V self-resettable fuse for protecting the power supply to the sensors
- all the inputs are filtered and protected against electrical and electrostatic discharges
- alarm relay with potential-free changeover contact 24 V= 3A
- 2 programmable logic outputs with configurable polarity, limited to 100 mA, self-resettable
- built-in digital dialler
- separate power supply unit, switching type direct from mains
- power supply protection against overloads, short-circuits and voltage surges
- battery connection (up to 18 A/h – 12 V) protected against reversed polarity and short-circuits
- circuit for dynamic testing of backup battery charge status
- circuit for monitoring the positive sounder voltages, 485 bus and sensor auxiliary positive
- on-board 485 bus terminal resistor, which can be activated by means of a jumper
- USB interface for connection to a configuration system



● Holes for fixing the control panel board to the metal housing art. BOXMETAL

● Fixtures for boards/expansions

**i** If more than 20 BUS peripherals are connected to the system, including:

- keypads (VEDOKP, VEDOKP200, VEDOKPR, VEDOKPR200, VEDOLCD, VEDOLCDPROX)
- RFID readers (VEDOPROX/VEDOPROXA)
- system managers (VEDO5TPR, VEDOTOUCH, MiniTouch 20034607, Planux Manager 20034801, Icona Manager ViP 20003310W)
- radio / wired expansions (RF10VEDO/RF32VEDO, VEDO8I8O/VEDO8I8OA)
- power supply unit management board (PCBPSU)
- bus isolator (VEDOISO)

**we recommend changing the RS-485 BUS communication speed for the control panel and all peripherals and adjusting it from 38'400 to 115'200.**

## TECHNICAL SPECIFICATIONS



To ensure the products comply with standards EN 50131-1 and EN 50131-3:

- 3 control panel inputs must be programmed to manage the following events: Detector fault, Anti-robbery device fault, Sounder fault;
- one control panel input must be activated in the event of a fault (DO NOT connect the additional or self-powered sounders to this output);
- a Sounder sabotage zone must be provided.

Name of manufacturer / supplier Comelit Group S.p.A.

Dimensions (w x h x d) 140 x 127 x 28 mm

**Weight** 125 g without earth cable  
135 g with earth cable

**Consumption (min./max.)** **Control panel in standby:** 50 mA +  
**All active outputs:** 40 mA +  
**PSTN active and communicating:** 35 mA +  
**Audio:** 1 mA +  
**GSM:** 10 mA idle, 35 mA when communicating +  
**IP:** 55 mA

**Average power consumption in 1 h:**

PCBVEDOXX 90 mAh 1 alarm every 5 minutes and communication with duration of 3 minutes  
VEDOGSM (protocol < 9904XX) 24 mAh 1 alarm every 5 minutes and communication with duration of 2 minutes  
VEDOGSM (protocol >= 9904XX) 20 mAh 1 alarm every 5 minutes and communication with duration of 1 minute  
VEDOGSM3G 26 mAh 1 alarm every 5 minutes and communication with duration of 1 minute  
VEDOGSM4G 43 mAh 1 alarm every 5 minutes and communication with duration of 1 minute  
VEDOIP 55 mAh 1 alarm every 5 minutes and communication with duration of 1 minute  
VEDOIPA 90 mAh 1 alarm every 5 minutes and communication with duration of 1 minute  
VEDOWIFI 100 mAh 1 alarm every 5 minutes and communication with duration of 1 minute

**Operating temperature and Operating humidity** -10 °C / + 55 °C with warm dry air  
-10 °C / + 40 °C with max. + 93% RH (not condensed)

**Operating voltage** 10 V<sub>DC</sub> to 15 V<sub>DC</sub>

**Certified safety grade** (for PCBVEDO10, PCBVEDO34, PCBVEDO68)  
2 in compliance with EN 50131-1\*

**Device Type** TYPE B according to standard EN50131-3

**Environmental class** II according to EN50131-1

\* Observing any indications for configuration and installation

## CONFIGURATION JUMPERS

|            |                                                                  |
|------------|------------------------------------------------------------------|
| <b>JP1</b> | If activated, enables 485 bus terminal resistor                  |
| <b>JP2</b> | Reserved                                                         |
| <b>JP3</b> | Reset (closing it and then opening it restarts the program)      |
| <b>JP4</b> | TC2 polarity: Open Collector (OC) or Positive Command on TC (TC) |
| <b>JP5</b> | TC1 polarity: Open Collector (OC) or Positive Command on TC (TC) |
| <b>JP6</b> | Restore initial configuration (see installation paragraph)       |
| <b>JP7</b> | Service input                                                    |
| <b>JP8</b> | Future uses                                                      |

## VARIOUS CONNECTORS

|            |                   |
|------------|-------------------|
| <b>CN1</b> | PSU connector     |
| <b>CN2</b> | Battery connector |
| <b>CN3</b> | USB               |
| <b>CN4</b> | Reserved          |

## MODULE CONNECTORS

|             |                                                        |
|-------------|--------------------------------------------------------|
| <b>MOD1</b> | IP communication expansion module connection           |
| <b>MOD2</b> | Messages and voice control expansion module connection |
| <b>MOD3</b> | Future uses                                            |
| <b>MOD5</b> | GSM communication expansion module connection          |

## LED MEANINGS

|            |                                                                                                                 |
|------------|-----------------------------------------------------------------------------------------------------------------|
| <b>DL1</b> | Presence of microcontroller power supply                                                                        |
| <b>DL2</b> | Errors on 485 bus                                                                                               |
| <b>DL3</b> | Control panel operating: 1 second ON/OFF<br>Control panel in standby to download parameters: 0.2 seconds ON/OFF |
| <b>DL4</b> | Indoor use                                                                                                      |
| <b>DL5</b> | Not fitted                                                                                                      |

## TERMINAL BLOCK M11-M12

|             |                                                                            |
|-------------|----------------------------------------------------------------------------|
| <b>L1</b>   | Conductor 1 input from telephone line. Connected directly to terminal TEL1 |
| <b>L2</b>   | Conductor 2 input from telephone line                                      |
| <b>TEL2</b> | Conductor 2 output to telephone                                            |
| <b>TEL1</b> | Conductor 1 output to telephone. Connected directly to terminal L1         |

## TERMINAL BLOCK M2-M3-M4-M5

|               |                                                                                                                                                                                                                                                                                                                                                                 |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | ⊕ Connection for a functional earth connection.                                                                                                                                                                                                                                                                                                                 |
| <b>V+ bus</b> | Power supply positive for 485 communication bus. Limited to 1.5A / 13.8 V                                                                                                                                                                                                                                                                                       |
| <b>A</b>      | RS485 - A data bus                                                                                                                                                                                                                                                                                                                                              |
| <b>B</b>      | RS485 - B data bus                                                                                                                                                                                                                                                                                                                                              |
| <b>V-</b>     | Power supply negative. All terminals marked V- are connected to each other                                                                                                                                                                                                                                                                                      |
| <b>COM</b>    | Connection for alarm relay switching control panel pin (RY1)                                                                                                                                                                                                                                                                                                    |
| <b>NC</b>     | Normally closed connection for alarm relay (RY1). In standby the COM and NC terminals are kept closed together.                                                                                                                                                                                                                                                 |
| <b>NO</b>     | Normally open connection for alarm relay (RY1). When the relay is attracted, the COM and NO terminals are kept closed together.                                                                                                                                                                                                                                 |
| <b>V+ SIR</b> | Sounder battery charge and power supply positive. Limited to 0.75 A / 13.8 V.                                                                                                                                                                                                                                                                                   |
|               | Programmable block logic output. Permitted load 100 mA.                                                                                                                                                                                                                                                                                                         |
| <b>TC2</b>    | Polarity is determined by jumper JP4. If JP4 is set to OC (0 V), the output acts as an open collector: in standby, it will not allow the passage of current, and if activated, it will close to earth. If JP4 is set to TC (13.8 V), however, in standby it will not allow the passage of current and if activated, it will present a positive to the terminal. |
| <b>TC1</b>    | As per TC2, but controlled by JP5                                                                                                                                                                                                                                                                                                                               |
| <b>V-</b>     | Power supply negative.                                                                                                                                                                                                                                                                                                                                          |

## TERMINAL BLOCK M6-M7-M8-M9-M10

|            |                                           |
|------------|-------------------------------------------|
| <b>V+</b>  | Power supply positive for signal sensors. |
| <b>AUX</b> | Limited to 1.5A / 13.8 V.                 |
| <b>I1</b>  | Programmable input zone 1.                |

|            |                                                                                                                                   |
|------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>I2</b>  | Programmable input zone 2.                                                                                                        |
| <b>V-</b>  | Inputs common / Power supply negative                                                                                             |
| <b>I3</b>  | Programmable input zone 3.                                                                                                        |
| <b>I4</b>  | Programmable input zone 4.                                                                                                        |
| <b>I5</b>  | Programmable input zone 5.                                                                                                        |
| <b>I6</b>  | Programmable input zone 6.                                                                                                        |
| <b>V-</b>  | Inputs common / Power supply negative                                                                                             |
| <b>I7</b>  | Programmable input zone 7.                                                                                                        |
| <b>I8</b>  | Programmable input zone 8.                                                                                                        |
| <b>V+</b>  | Power supply positive for signal sensors. Electrically connected to terminal 1 of the same terminal block. Shares its limitation. |
| <b>AUX</b> | Power supply negative.                                                                                                            |
| <b>24H</b> | Programmable anti-tamper input.                                                                                                   |

## INSTALLATION

Art. PCBVEDO10, PCBVEDO34, PCBVEDO68, PCBVEDO200 can be installed in:

- Art. BOXSTANDARD plastic housing.  Page 34



*In order to guarantee compliance with standard EN 62368-1 the earthing must be connected as shown on page 8*

- Art. BOXMETAL metal housing.  Page 36



*In order to guarantee compliance with standard EN 62368-1 the earthing must be connected as shown on page 10*

## INTERNAL EXPANSIONS



**Cut off the power supply (both power supply unit and battery) before fitting/removing modules! Risk of permanently damaging the expansion module and the control panel board.**

## STANDARD PSTN: TELEPHONE DIALLER FUNCTIONS

- telephone line presence check
- number dialling, both pulse and DTMF
- 16 telephone numbers for voice calls
- Contact ID / SIA compatible built-in digital dialler
- 8 telephone numbers for Contact ID/SIA
- configurable test call
- override answering machine option



*The device is immune to the disturbances governed by standard EN 50130-4.*

*Emission standards with which the device complies: EN 61000-6-3, EN 50130-4, EN 301489-1, EN 301489-3, EN 301489-17, EN 50136-2*

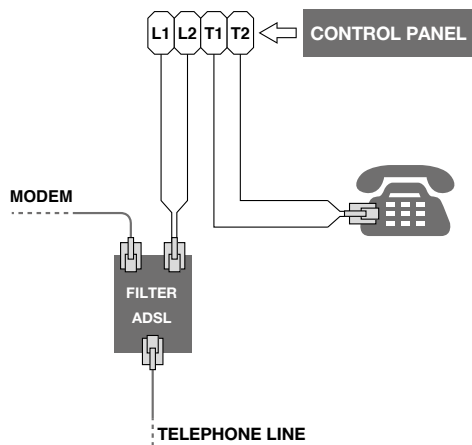


*Specifications in compliance with EN 50136-2*

|                                                                                       |                                                                                                                                             |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Types of alarm transmission for which the device is suitable</b>                   | SP2 in compliance with EN 50131-1                                                                                                           |
| <b>Interface type</b>                                                                 | Integrated into the control panel                                                                                                           |
| <b>Operating mode saving and forwarding event / event transmission (pass-through)</b> | event transmission (pass-through)                                                                                                           |
| <b>Generation and/or transmission times of alarm messages</b>                         | voice messages: 10 sec                                                                                                                      |
| <b>Times for generating a reply signal (when used)</b>                                | CONTACT ID: times according to standard SIA DC-05-1999.09<br>SIA: times according to standard SIA-DC-03-1990.01                             |
| <b>Times for detecting and presenting faults</b>                                      | line disconnection: 10 sec                                                                                                                  |
| <b>Method for signalling faults to alarm system</b>                                   | Alert send failure: regular or on event                                                                                                     |
| <b>Level of output signals and/or sensitivity of input signals</b>                    | <b>Minimum level DTMF tones at input:</b> 36mVeff - 28.8dBV 100mVpp<br><b>Level DTMF tones at output:</b> low freq 9 dBm / high freq 11 dBm |

|                                            |                                                                                 |
|--------------------------------------------|---------------------------------------------------------------------------------|
| <b>Safety signals level supplied</b>       | ATS2-I0 no information protection<br>ATS2-S0 no protection against substitution |
| <b>Calibration instructions</b>            | calibration not necessary                                                       |
| <b>Sharing of transmission connections</b> | PSTN<br>possible in systems with adsl and other telephones                      |

## CONNECTION OF THE TELEPHONE LINE TO THE CONTROL PANEL



## VEDOVOICE: MESSAGES AND VOICE CONTROL EXPANSION MODULE

Optional, contains the part of the audio messages relating to the digital dialler, i.e. contains the audio messages to be sent on the standard or GSM telephone line. Equipped with a plug-in connector for simplified fitting.

The voice control section cannot be customised. It allows an authorised user to perform guided activation, deactivation, modification and status checking operations on the system from a remote location, using a standard telephone or mobile phone.

A second section is provided for the input of custom messages. In other words, all messages intended to provide specific information about the system. This information includes all data relating to alarm signalling (e.g. the data identifying the system address: "Home of Mr John Smith, Queen Street, London").

The message expansion module does not initially contain any messages and must therefore be configured (by means of the configuration software) at the time of first installation. The same applies in the event of replacement of or addition to an existing system.

If this module is not fitted, the only type of audio information that it will be possible to send by telephone is audio tones.



**The product complies with standards EN 50131-1, EN 50136-2.**

## FUNCTIONS

- Up to 48 standard messages
- 16 freely usable messages (recording and transfer only from PC software)
- 6 service voice messages
- system management by means of interface with voice menu
- Facility for activation, deactivation, output status modification and alarm reset from a remote location

## TECHNICAL SPECIFICATIONS

|                                                     |                                                                                           |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Name of manufacturer / supplier</b>              | Comelit Group S.p.A.                                                                      |
| <b>Dimensions (w x h x d)</b>                       | 24 x 21 x 12 mm                                                                           |
| <b>Weight</b>                                       | 4 g                                                                                       |
| <b>Consumption (min./max.)</b>                      | 1 mA                                                                                      |
| <b>Operating temperature and Operating humidity</b> | -10 °C / + 55 °C with warm dry air<br>-10 °C / + 40 °C with max. + 93% RH (not condensed) |
| <b>Certified safety grade</b>                       | 2 in compliance with EN 50131-1*                                                          |
| <b>Environmental class</b>                          | II in compliance with EN 50131-1                                                          |

\* Observing any indications for configuration and installation



**Specifications in compliance with EN 50136-2**

|                                                                     |                                                                                 |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Types of alarm transmission for which the device is suitable</b> | ATS2 in compliance with EN 50131-1                                              |
| <b>Interface type</b>                                               | Control panel expansion                                                         |
| <b>Safety signals level supplied</b>                                | ATS2-I0 no information protection<br>ATS2-S0 no protection against substitution |
| <b>Voltage operating range</b>                                      | 3.3 V $\pm$ 2%                                                                  |

## INSTALLATION

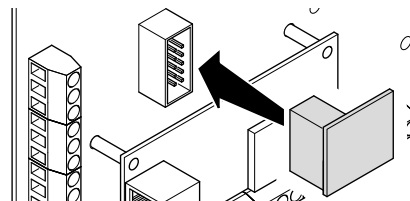


**Cut off the power supply (both power supply unit and battery) before fitting/removing modules! Risk of permanently damaging the expansion module and the control panel board.**

1. Make sure that all power is OFF!
2. Insert the VEDOVOICE expansion into the MOD2 connector on the control panel board.



Page 12 The module connector should plug into its counterpart without requiring any force.



No auxiliary connection is required.

## VEDOGSM: GSM COMMUNICATION EXPANSION MODULE

The GSM communication expansion module art. VEDOGSM allows telephone calls, SMS, MMS and emails to be sent on the data network, plus the sending of digital protocols and date and time synchronisation. Combined with the voice message board art. VEDOVOICE, it allows remote management of the control panel by a voice dialler.



**The product complies with standards EN 50131-1, EN 50136-1, EN 50136-2, EN 61000-6-3.**

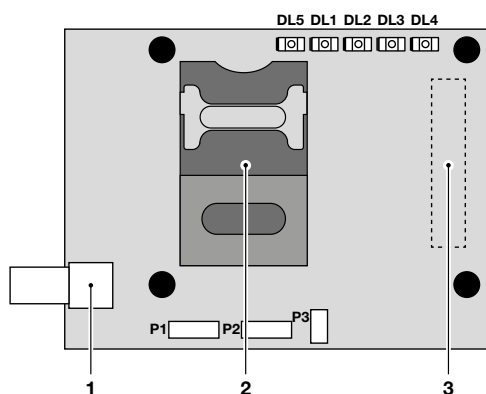
**The device is immune to the disturbances governed by standard EN 50130-4.**

**Emission standards with which the device complies: EN 61000-6-3, EN 50130-4, EN 301489-1, EN 301489-3, EN 301489-17.**

## FUNCTIONS

- GSM850, EGSM900, DCS1800, PCS 1900
- GSM/GPRS channel support
- Main or reserve telephone dialler
- Indication of alarms/malfunctions/sabotage/events via SMS
- Customisable SMS messages
- Control panel status interrogation via SMS
- Checking residual credit of the prepaid SIM
- Transmission of Voice Messages via GSM
- Event transmission in Contact-ID and SIA (Level 1) format via GSM and over TCP-IP (SIA-DC-09 protocol support)
- Event transmission by email with images
- Event transmission by MMS
- Date and time updating

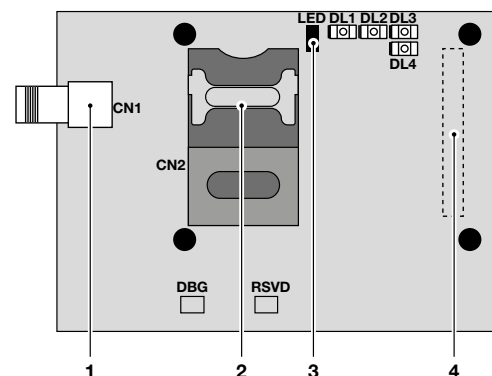
## VEDOGSM WITH PROTOCOL NUMBER < 9904XX



1. Antenna connector
2. SIM housing
3. Module connector position

● Holes for fixing the VEDOGSM module to the control panel board art. PCBVEDO10, PCBVEDO34, PCBVEDO68, PCBVEDO200

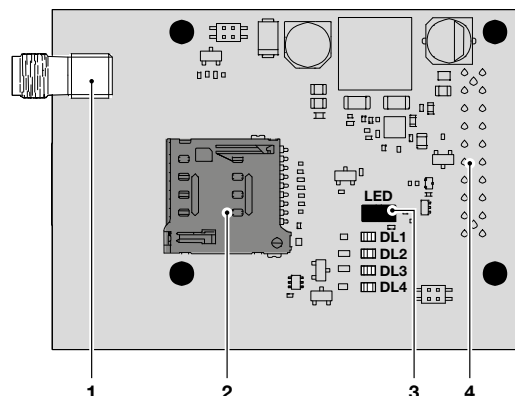
## VEDOGSM WITH PROTOCOL NUMBER ≥ 9904XX TO 9911XX INCLUSIVE



1. Antenna connector
2. SIM housing
3. LED enabling/disabling jumper
4. Module connector position

● Holes for fixing the VEDOGSM module to the control panel board art. PCBVEDO10, PCBVEDO34, PCBVEDO68, PCBVEDO200

## VEDOGSM WITH PROTOCOL NUMBER ≥ 9912XX OR = 98XX



1. Antenna connector
2. SIM housing
3. LED enabling/disabling jumper
4. Module connector position

● Holes for fixing the VEDOGSM module to the control panel board art. PCBVEDO10, PCBVEDO34, PCBVEDO68, PCBVEDO200

## TECHNICAL SPECIFICATIONS

|                                                                                                                                           | VEDOGSM<br>protocol < 9904XX                                                                                                                                                                        | VEDOGSM<br>protocol ≥ 9904XX<br>or = 98XX                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of manufacturer / supplier                                                                                                           | Comelit Group S.p.A.                                                                                                                                                                                |                                                                                                                                                               |
| Dimensions (b x h x d)                                                                                                                    | 70 x 48 x 29 mm<br>(without antenna)                                                                                                                                                                | 72 x 48 x 29 mm<br>(without antenna)                                                                                                                          |
| Weight                                                                                                                                    | 26 g without antenna<br>44 g with antenna                                                                                                                                                           | 23 g without antenna<br>41 g with antenna                                                                                                                     |
| Consumption (min./max.)                                                                                                                   | 10 mA in Idle<br>35 mA in communication<br><br>Average power consumption in 1 h: 26 mAh (1 alarm every 5 minutes and communication with duration of 1 minute)                                       | 10 mA in Idle<br>60 mA in communication<br><br>Average power consumption in 1 h: 20 mAh (1 alarm every 5 minutes and communication with duration of 1 minute) |
| Operating temperature and Operating humidity                                                                                              | -10 °C / + 55 °C with warm dry air<br>-10 °C / + 40 °C with max. + 93% RH (not condensed)                                                                                                           |                                                                                                                                                               |
| Certified safety grade                                                                                                                    | 2 according to EN50131-1*                                                                                                                                                                           |                                                                                                                                                               |
| Environmental class                                                                                                                       | II according to EN50131-1                                                                                                                                                                           |                                                                                                                                                               |
| * Observing any indications for configuration and installation                                                                            |                                                                                                                                                                                                     |                                                                                                                                                               |
| <div> Specifications in compliance with EN 50136-2</div> |                                                                                                                                                                                                     |                                                                                                                                                               |
|                                                                                                                                           | VEDOGSM<br>protocol < 9904XX                                                                                                                                                                        | VEDOGSM<br>protocol ≥ 9904XX<br>or = 98XX                                                                                                                     |
| Types of alarm transmission for which the device is suitable                                                                              | SP4 according to EN50131-1                                                                                                                                                                          |                                                                                                                                                               |
| Interface type                                                                                                                            | Control panel expansion                                                                                                                                                                             |                                                                                                                                                               |
| Operating mode saving and forwarding event / event transmission (pass-through)                                                            | event transmission (pass-through)                                                                                                                                                                   |                                                                                                                                                               |
| Generation and/or transmission times of alarm messages                                                                                    | voice messages: 10 sec<br>email: 10 sec without image / 90 sec with image<br>MMS: 90 sec                                                                                                            | voice messages: 10 sec<br>email: 10 sec without image, 90 sec with image<br>MMS: 45 sec                                                                       |
| Times for generating a reply signal (when used)                                                                                           | CONTACT ID: times according to standard SIA DC-05-1999.09<br>SIA: times according to standard SIA-DC-03-1990.01<br>SIA-DC-09: times according to standard ANSI/SIA-DC-09-2007                       |                                                                                                                                                               |
| Times for detecting and presenting faults                                                                                                 | No GSM/GPRS coverage: 120 sec<br>SIM fault: 20 sec<br>antenna disconnected: 45 sec                                                                                                                  |                                                                                                                                                               |
| Method for signalling faults to alarm system                                                                                              | Alert send failure: regular or on event                                                                                                                                                             |                                                                                                                                                               |
| Level of output signals and/or sensitivity of input signals                                                                               | Minimum level DTMF tones at input: 36mVeff - 28.8dbV 100mVpp<br>Level DTMF tones at output: low freq 9 dBm / high freq 11 dBm                                                                       |                                                                                                                                                               |
| Safety signals level supplied                                                                                                             | Digital protocols protected for info and replacement<br>Telephone protocols (Contact ID and SIA): no information protection<br>IP protocols: information protection and protection from replacement |                                                                                                                                                               |
| Sharing of transmission connections                                                                                                       | GSM: GSM850, EGSM900, DCS1800, PCS 1900 Class 4 (2W) for GSM850 / EGSM900<br>Class 1 (1W) for DCS1800 / PCS1900                                                                                     |                                                                                                                                                               |
| Voltage operating range                                                                                                                   | 10 ~ 15 V ---                                                                                                                                                                                       |                                                                                                                                                               |

## MEANING OF THE LEDS

### VEDOGSM protocol < 9904XX

- DL1 Red LED:** GSM communication. Flashes when a transfer via the GSM or GPRS network is in progress, e.g. during receipt of an SMS or during registration with the network at the time of initialisation.
- DL2 Red LED lit steadily:** during reset, during initial configuration of the module and when engaged by the control panel to communicate via GSM/GPRS. **Flashing red LED:** in all other conditions.
- DL3 Green LED:** module serial communication. Lights up briefly when the module communicates with the control panel.
- DL4 Green LED:** module serial communication. Lights up briefly when the module communicates with the control panel.
- DL5 Red LED off:** indicates that there is no signal (e.g. antenna or SIM card missing).  
**Red LED lit:** radio connection active. Four different levels of strength indicate the level of GSM signal received. If this indicator is lit, the module is capable of operating. (from control panel Fw version 2.2.1, this indication is only visible with "service" jumper Jp7 inserted).

### VEDOGSM protocol ≥ 9904XX or = 98XX

- DL1 Green LED:** module serial communication. Lights up briefly when the module communicates with the control panel.
- DL2 Green LED:** module serial communication. Lights up briefly when the module communicates with the control panel.
- DL3 Red LED off:** The module is not in operation.  
**Red LED rapid flashing** (64 ms On/ 800 ms Off): The module is not connected to the network.  
**Red LED slow flashing** (64 ms On/ 2000 ms Off): The module is connected to the network.
- DL4 Red LED:** GSM communication. Flashes when a transfer via the GSM or GPRS network is in progress, e.g. during receipt of an SMS or during initialisation, when registration with the network takes place.

## CONFIGURATION JUMPERS

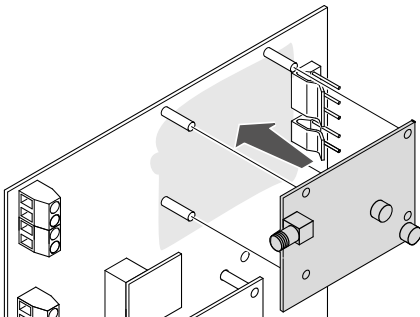
| VEDOGSM protocol < 9904XX                      | VEDOGSM protocol ≥ 9904XX or = 98XX             |
|------------------------------------------------|-------------------------------------------------|
| <b>P1</b> If disconnected, the LEDs switch off | <b>Led</b> If disconnected, the LEDs switch off |
| <b>P2</b> Reserved                             | <b>DBG</b> Reserved                             |
| <b>P3</b> Reserved                             | <b>RSDV</b> Reserved                            |

## INSTALLATION

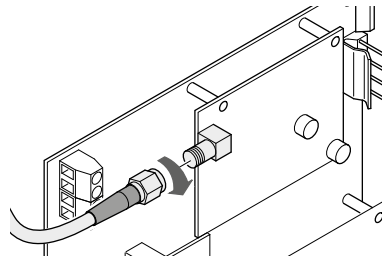


**Cut off the power supply (both power supply unit and battery) before fitting/removing modules! Risk of permanently damaging the expansion module and the control panel board.**

1. Make sure the board on which you intend to fit the module is not connected to the power supply!
2. Insert the plastic spacers in the relevant holes.
3. Then, taking care to plug the module connector into the control panel connector designated MOD5 correctly (see page 12)), apply sufficient pressure to engage the spacers in the GSM expansion card and plug the connector in almost fully.



4. Once the module has been fitted correctly, connect the antenna that you intend to use by tightening the connector on the cable to the gold-coloured connector on the GSM module.

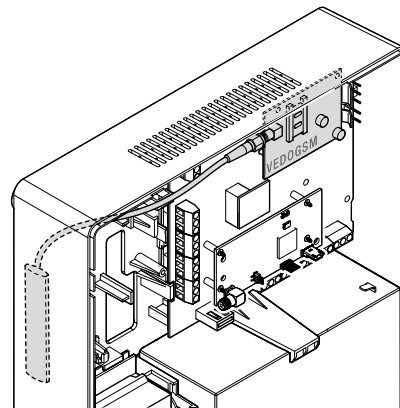


The antenna must be correctly connected and its connector must be **fully tightened**.

Before using the module, it must be enabled with the Safe Manager software. If the module is enabled but not connected, a fault will be generated.

Antenna presence can be detected only using the antenna supplied. In all other cases antenna presence detection must be excluded from the GSM dialler options.

## ANTENNA POSITIONING WITH BOXSTANDARD HOUSING

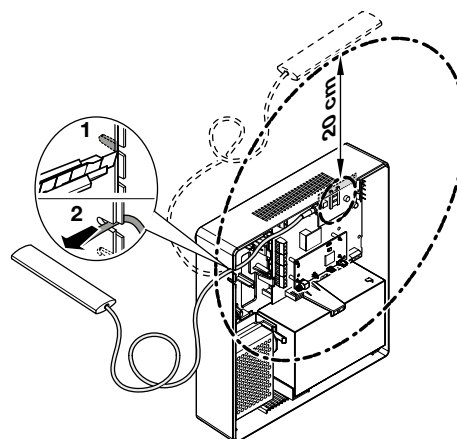


The antenna can be fitted externally; for this reason there are 2 cutouts to allow easy feedthrough of the antenna cable.



**Place the antenna at least 20 cm away from the GSM module.**

**Do not place the antenna on metal surfaces!**

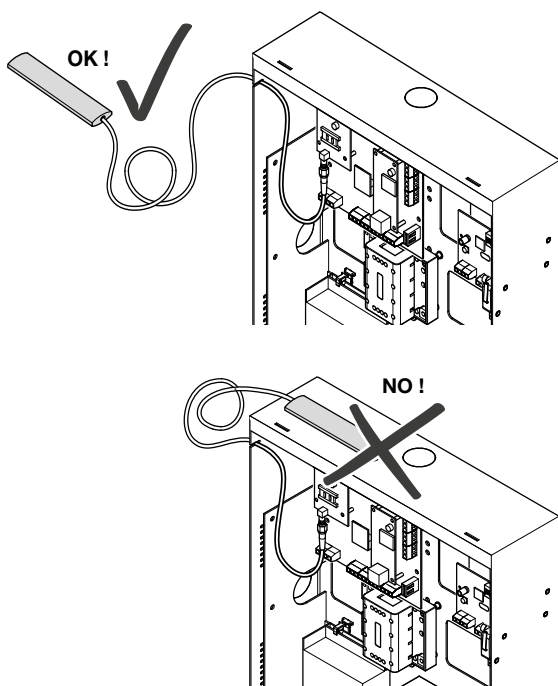


## ANTENNA POSITIONING WITH BOXMETAL HOUSING



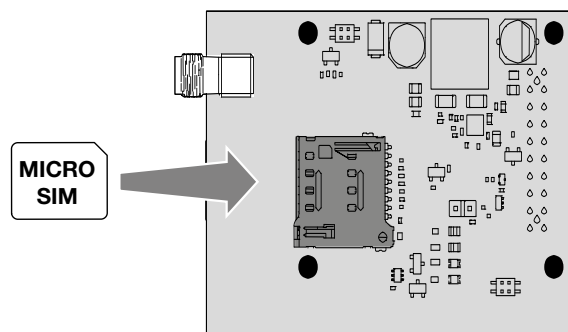
Position the antennas outside the housing using the specific "antenna outlet".

Do not place the antenna on metal surfaces!



## FITTING THE SIM CARD

1. First check that all power is OFF.
  - ✓ The SIM card must be enabled, and if it is a pay-as-you-go type, it must have sufficient credit on it to be able to make phone calls, send messages or transmit digital protocols via TCP-IP. It is not essential to unlock it, because the control panel is capable of managing the PIN to unlock the SIM card.
2. Gently force the top of the SIM connector towards the centre of the control panel board (downwards if the control panel is already mounted on the wall).
3. Once you have overcome the resistance, turn it over on its hinges.
4. Insert the SIM card in the mobile part in such a way that you can see the gold-coloured contacts of the SIM and that the bevelled corner is on the left.
5. Repeat the sequence in reverse to release the SIM card from its seat.



## VEDOGSM4G: GSM COMMUNICATION EXPANSION MODULE

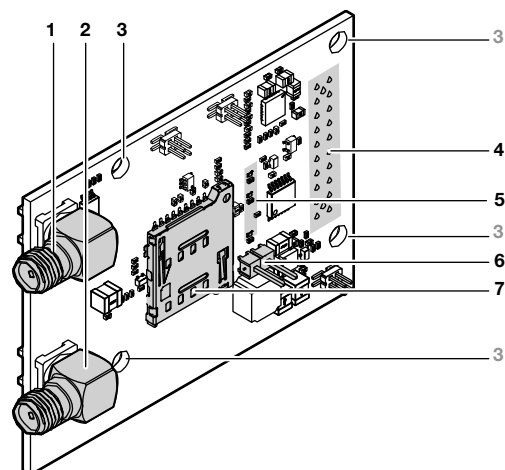
VEDOGSM4G allows the sending of telephone calls, SMS, MMS and emails over the data network, as well as the sending of digital protocols and date/time synchronisation. Used in conjunction with the VEDOVOICE voice message board, it allows remote management of the control panel by a voice dialler. The module also allows connection via the Comelit app.

### MODULE FUNCTIONS

- EGSM900, DCS1800, WCDMA B1/B8, LTE FDD B1/B3/B7/B8/B20/B28
- GSM/GPRS/UMTS/USPA/LTE channel support
- Antennas included:
  - main antenna for connection to ANT1
  - secondary antenna for connection to ANT2 in the event of a weak signal
- Main or reserve telephone dialler
- Indication of alarms/malfunctions/sabotage/events via SMS
- Customisable SMS messages
- Control panel status interrogation via SMS
- Checking residual credit of the prepaid SIM
- Transmission of Voice Messages via GSM
- Event transmission in Contact-ID and SIA (Level 1) format via GSM and over TCP-IP (SIA-DC-09 protocol support)
- Event transmission by email with images
- Event transmission by MMS
- Date and time updating



VEDOGSM4G can only be used with Comelit control panels VEDO10, VEDO34, VEDO34M, VEDO68, VEDO68M, VEDO200, VEDO200M, firmware version  $\geq 2.12.4$



1. ANT1 Main antenna connector
2. ANT2 Secondary antenna connector
3. Holes for securing the module to the control panel board
4. Module connector position
5. LED indicators: D1 (top), D3 (middle), D2 (bottom)
6. LED enabling/disabling jumper
7. Micro-SIM slot

### TECHNICAL SPECIFICATIONS

|                                                                 |                                                                                                                                                                          |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of manufacturer / supplier                                 | Comelit Group S.p.A.                                                                                                                                                     |
| Dimensions (W x H x D)                                          | 72 x 48 x 29 mm without antenna                                                                                                                                          |
| Weight                                                          | 30 g without antenna<br>46 g with 1 antenna                                                                                                                              |
| Consumption (min./max.)                                         | 36 mA in Idle,<br>80 mA when communicating<br>Average power consumption in 1 h:<br>VEDOGSM4G: 43 mAh 1 alarm every 5 minutes and communication with duration of 1 minute |
| Operating temperature and Operating humidity                    | -10 °C / + 55 °C with warm dry air<br>-10 °C / + 40 °C with max. + 93% RH (not condensed)                                                                                |
| Interface type                                                  | Control panel expansion                                                                                                                                                  |
| Operating mode saving and forwarding event / event transmission | Event transmission (pass-through)                                                                                                                                        |

|                                                                    |                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Generation and/or transmission times of alarm messages</b>      | voice messages: 10 sec<br>email: 10 sec without image<br>90 sec with image<br>MMS: 45 sec                                                                                                                                                                                                                                                               |
| <b>Times for generating a reply signal (when used)</b>             | CONTACT ID: times according to standard SIA DC-05-1999.09<br>SIA: times according to standard SIA-DC-03-1990.01<br>SIA-DC-09: times according to standard ANSI/SIA-DC-09-2007                                                                                                                                                                           |
| <b>Times for detecting and presenting faults</b>                   | <b>No GSM and GPRS coverage:</b> 120 sec<br><b>SIM fault:</b> 20 sec<br><b>Antenna disconnected:</b> 45 sec                                                                                                                                                                                                                                             |
| <b>Method for signalling faults to alarm system</b>                | Alert send failure: regular or on event                                                                                                                                                                                                                                                                                                                 |
| <b>Level of output signals and/or sensitivity of input signals</b> | <b>Minimum level DTMF tones at input:</b> 36mVeff - 28.8dBV 100mVpp<br><b>Level DTMF tones at output:</b> low freq 9 dBm / high freq 11 dBm                                                                                                                                                                                                             |
| <b>Safety signals level supplied</b>                               | ATS2-I0 no protection of information<br>ATS2-S0 no protection against substitution                                                                                                                                                                                                                                                                      |
| <b>Sharing of transmission connections</b>                         | EGSM900, DCS1800, WCDMA B1/B8, LTE FDD B1/B3/B7/B8/B20/B28<br>Class 4 (33 dBm $\pm$ 2 dB) for EGSM900<br>Class 1 (30 dBm $\pm$ 2 dB) for DCS1800<br>Class E2 (27 dBm $\pm$ 3 dB) for EGSM900 8-PSK<br>Class E2 (26 dBm $\pm$ 3 dB) for DCS1800 8-PSK<br>Class 3 (24 dBm $\pm$ 1/-3 dB) for WCDMA bands<br>Class 3 (23 dBm $\pm$ 2 dB) for LTE-FDD bands |
| <b>Voltage operating range</b>                                     | 10 ~ 15 V $\equiv$                                                                                                                                                                                                                                                                                                                                      |

## MEANING OF THE LEDS

|                            |                                                                                                                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>D1</b><br><b>RED</b>    | <b>Off:</b> Module not working<br><b>Flashing quickly</b> (64 ms On/ 800 ms Off): Module not connected to the network<br><b>Flashing slowly</b> (64 ms On/ 2000 ms Off): Module connected to the network |
| <b>D3</b><br><b>ORANGE</b> | Module serial communication. Lights up briefly when the module communicates with the control panel.                                                                                                      |
| <b>D2</b><br><b>GREEN</b>  | Module serial communication. Lights up briefly when the module communicates with the control panel.                                                                                                      |

## CONFIGURATION JUMPERS

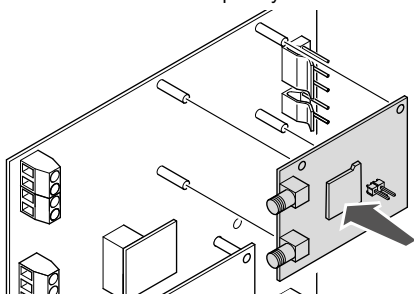
|             |                                      |
|-------------|--------------------------------------|
| <b>Led</b>  | If disconnected, the LEDs switch off |
| <b>DBG</b>  | Reserved                             |
| <b>RSDV</b> | Reserved                             |
| <b>CSL</b>  | Reserved                             |

## INSTALLATION



**Cut off the power supply (both power supply unit and battery) before fitting/removing modules! Risk of permanently damaging the expansion module and the control panel board.**

1. Make sure the board on which you intend to fit the module is not connected to the power supply!
2. Insert the plastic spacers in the relevant holes.
3. Then, taking care to plug the module connector into the control panel connector designated MOD5 correctly, apply sufficient pressure to engage the spacers in the GSM expansion card and plug the connector in almost completely.



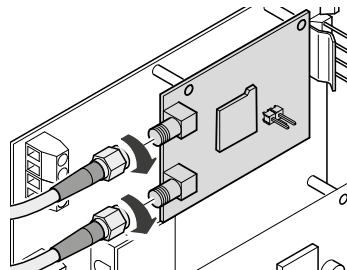
For the module to work, **at least one of the two antennas must be connected** and fastened to connector **ANT1**.

4. Fasten the cable connector onto the gold-coloured **ANT1** connector on the VEDOGSM4G module.

**Connecting the second antenna improves performance in weak signal conditions.**

5. If using the second antenna, proceed by fastening the cable to the gold-coloured connector **ANT2** on the VEDOGSM4G module.

**It is important that each antenna is connected correctly and tightened fully.**

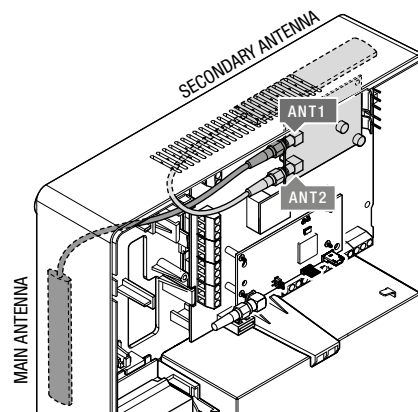


**The antennas must be positioned perpendicular to one another!**

Antenna presence can only be detected using the antennas supplied. In all other cases antenna presence detection must be excluded from the GSM dialler options.

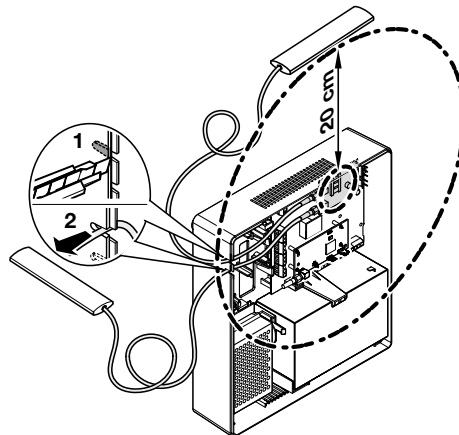
## ANTENNA POSITIONING IN BOXSTANDARD HOUSING

Position the antennas inside BOXSTANDARD as shown in the figure.



Note: Position the main antenna (connected to connector **ANT1**) on the left-hand side of the control panel.

If the position of the control panel does not allow adequate GSM signal reception for a reliably good connection, it is possible to fit antennas externally using the 2 precuts on the edge of the plastic housing.

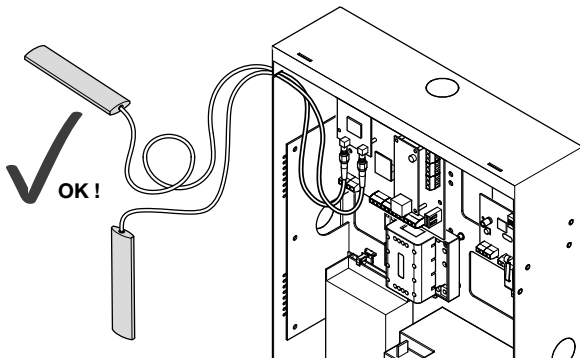


**The antennas must be positioned perpendicular to one another!**

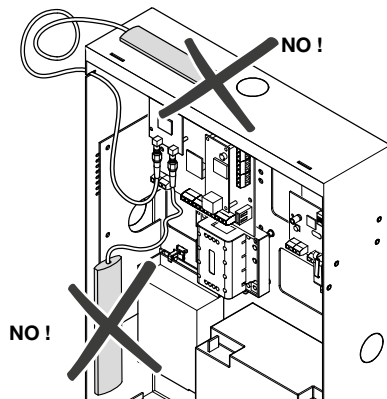
- Do not place the antenna on metal surfaces!
- Place the main antenna (connected to connector **ANT1**) at least 20 cm away from the VEDOGSM4G module.

## ANTENNA POSITIONING IN BOXMETAL HOUSING

Position the antennas outside the housing using the specific outlet.



**The antennas must be positioned perpendicular to one another!**  
**Do not place the antenna on metal surfaces!**

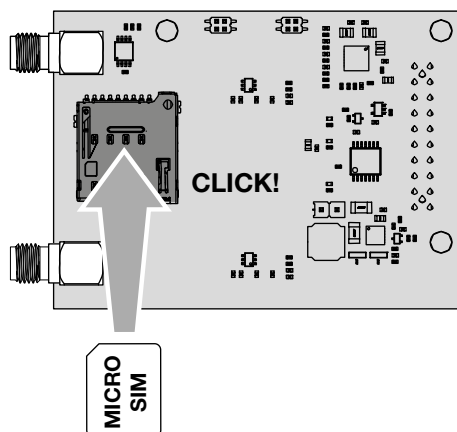


## FITTING THE MICRO SIM CARD

Make sure the board on which you intend to fit the module is not connected to the power supply!

- ✓ The SIM card must be enabled, and if it is a pay-as-you-go type, it must have sufficient credit on it to be able to make phone calls, send messages or transmit digital protocols via TCP-IP.

It is not essential to unlock it, because the control panel is capable of managing the PIN to unlock the SIM card.



Before using the module, it must be enabled with the Safe Manager software. If the module is enabled but not connected, a fault will be generated.

## VEDOIP/VEDOIPA: TCP/IP ETHERNET EXPANSION MODULE

VEDOIP/VEDOIPA provides support for connecting the alarm control panel to the network and allows authorised users to access the control panel either locally or remotely, enabling them to activate and deactivate all or some of the areas covered and check the status of each input.

The module is equipped with a plug-in connector for simplified mounting and must be connected via LAN with Standard Ethernet 10/100BASE-T IPv4.



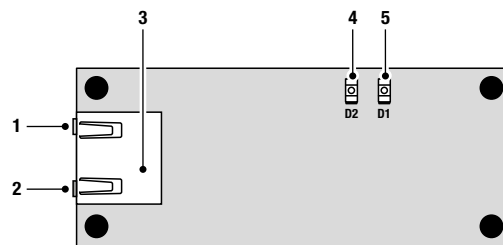
*The product complies with standards EN 50131-1, EN 50131-3, EN 50136-2*

## FUNCTIONS

- Ethernet interface
- Event transmission on IP
- Programming and monitoring of the control panel via LAN using Safe Manager
- Programming and monitoring of the control panel via the Internet using Safe Manager
- Control panel management via the Internet using the Comelit app
- Event alert via e-mail and on the Comelit app with alerts with proprietary protocol
- Alert by e-mail for alarms/malfunctions/sabotage/events with images



**VEDOIPA can only be used in conjunction with Comelit control panels with firmware version  $\geq$  2.10.**



1. RJ45 network connector yellow LED
2. RJ45 network connector green LED
3. RJ45 network connector
4. LED DL2
5. LED DL1

- Holes used for fixing the module to the control panel board art. PCBVEDO10, PCBVEDO34, PCBVEDO68, PCBVEDO200

## TECHNICAL SPECIFICATIONS

|                                           |                                                                                       |
|-------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Name of manufacturer / supplier</b>    | Comelit Group S.p.A.                                                                  |
| <b>Dimensions (LxHxD)</b>                 | 82x37.5x33 mm                                                                         |
| <b>Weight</b>                             | 20 g                                                                                  |
| <b>Consumption (min./max.)</b>            | 90 mA<br><b>Average power consumption in 1 h:</b><br>90 mAh                           |
| <b>Operating temperature and humidity</b> | -10 / + 55 °C with warm dry air<br>-10° / + 40° C with max.<br>93% RH (not condensed) |
| <b>Certified safety grade</b>             | 2 in compliance with EN 50131-1*                                                      |
| <b>Environmental class</b>                | II in compliance with EN 50131-1                                                      |

\* Observing any indications for configuration and installation



*Specifications in compliance with EN 50136-2 (SP4/DP3)*

|                                                                                       |                                          |
|---------------------------------------------------------------------------------------|------------------------------------------|
| <b>Generation and/or transmission times of alarm messages via e-mail</b>              | 4 sec without image<br>35 sec with image |
| <b>Types of alarm transmission for which the device is suitable</b>                   | ATS2 in compliance with EN 50131-1       |
| <b>Interface type</b>                                                                 | Control panel expansion                  |
| <b>Operating mode saving and forwarding event / event transmission (pass-through)</b> | Event transmission (pass-through)        |

|                                                     |                                                                                                                                                 |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Times for detecting and presenting faults</b>    | <b>No link:</b> 10 sec <b>No internet:</b> 120 sec<br><b>DDNS interrogation fault:</b> 35 sec<br>SMTP server connection fault: after 76 minutes |
| <b>Method for signalling faults to alarm system</b> | Alert send failure: regular or on event                                                                                                         |
| <b>Calibration instructions</b>                     | Calibration not necessary                                                                                                                       |
| <b>Sharing of transmission connections</b>          | Standard Ethernet 10/100BASE-T IPv4                                                                                                             |
| <b>Safety signals level supplied</b>                | ATS2-I0 no information protection<br>ATS2-S0 no protection against substitution                                                                 |
| <b>Voltage operating range</b>                      | 3.3 V <sub>DC</sub> ± 2%                                                                                                                        |

## MEANING OF THE LEDS

### LEDS OF THE RJ45 NETWORK CONNECTOR

|               |                                    |
|---------------|------------------------------------|
| <b>Yellow</b> | Physical Ethernet link established |
| <b>Green</b>  | Data transfer in progress          |

### LEDS ON THE IP MODULE

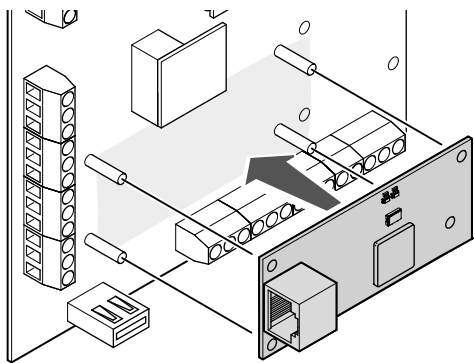
|            |                         |                                           |
|------------|-------------------------|-------------------------------------------|
|            | <b>Steadily lit</b>     | Link active and working                   |
| <b>DL1</b> | <b>Flashing slow</b>    | Card fault (no link or no internet, etc.) |
|            | <b>Flashing quickly</b> | Updating in progress                      |
| <b>DL2</b> | <b>Off</b>              | Not used                                  |

## INSTALLATION



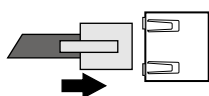
**Cut off the power supply (both power supply unit and battery) before fitting/removing modules! Risk of permanently damaging the expansion module and the control panel board.**

1. Make sure the board on which you intend to fit the module is not connected to the power supply.
2. Use the spacers to secure the expansion card properly.



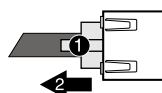
### FITTING THE RJ45 CONNECTOR

- √ Once fitted to the control panel board, the IP module must be connected to a Ethernet Standard 10/100BASE-T compatible hub or to a switch with the same specifications that allows it to be connected to a data network.  
For further information, see paragraph "Data network connection cable" on page 52.



- Insert the RJ45 terminal of the network cable into the only accessible connector on the module, until you hear a click.

### RJ45 CONNECTOR REMOVAL



- Press the tab on the RJ45 connector (1) and remove it from the module (2).

### MICROSD MEMORY CARD

(VEDOIP model only)



**The VEDOIP expansion is equipped with a MicroSD memory card reserved for technical use: do not remove, handle or replace the card provided!**

### VEDOWIFI: WI-FI COMMUNICATION BOARD

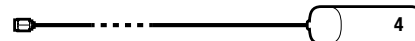
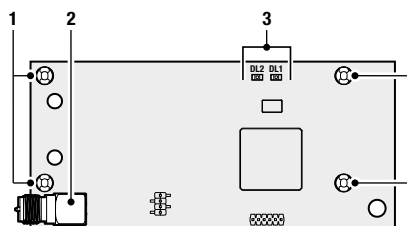
It enables the alarm control panel to be connected to the wireless network and to be programmed and controlled remotely via a dedicated application or software. Equipped with a plug-in connector for simplified fitting.

## FUNCTIONS

- Local and remote programming and monitoring of the control panel via Safe Manager.
- VEDO control panel connectivity for all cloud-based operations.
- Alarm/fault/sabotage event notification via e-mail/Comelit App.



**The VEDOWIFI module can only be used with Comelit VEDO control panels with firmware version 2.15.x or higher.**



1. Spacers for board mounting
2. SMA antenna connector
3. LED indicators
4. Adhesive Wi-Fi antenna complete with 30 cm long cable and SMA-RP connector

## TECHNICAL SPECIFICATIONS

|                                                       |                                                                                          |
|-------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>Name of manufacturer / supplier</b>                | Comelit Group S.p.A.                                                                     |
| <b>Dimensions (w x h x d)</b>                         | 82 x 37.5 x 33 mm                                                                        |
| <b>Weight</b>                                         | 18 g                                                                                     |
| <b>Consumption</b>                                    | 100mA                                                                                    |
| <b>Operating temperature and humidity</b>             | -10 °C / + 55 °C with warm dry air<br>-10° / + 40° C with max.<br>93% RH (not condensed) |
| <b>Type of Wi-Fi connection</b>                       | IEEE 802.11 b/g/n, 2.4 GHz                                                               |
| <b>Encryption method and supported authentication</b> | WPA-PSK (AES), WPA2-PSK (AES),<br>WPA3-PSK (AES)                                         |

## MEANING OF THE LEDS

|                     |                        |                                               |
|---------------------|------------------------|-----------------------------------------------|
| <b>DL1 (YELLOW)</b> | <b>lit steadily</b>    | Wi-Fi connection enabled with Internet access |
|                     | <b>flashing slowly</b> | no Wi-Fi connection or Internet access        |
| <b>DL2 (BLU)</b>    | <b>lit steadily</b>    | module active                                 |
|                     | <b>off</b>             | module disabled or faulty                     |

## VEDOWIFI RANGE

In order to ensure stability when using the alarm control panel via Wi-Fi connection, we recommend checking in the Safe Manager that the Wi-Fi signal is strong enough. The recommended minimum value for the RSSI (Received Signal Strength Indicator) is 21. We recommend regularly checking signal quality and, if necessary, improving Wi-Fi connection to ensure that the alarm control panel is working properly.

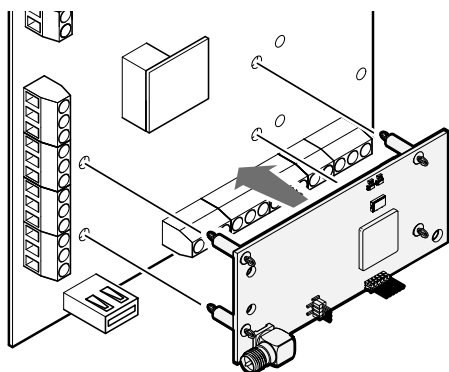
| Value in Safe Manager* | Signal quality |
|------------------------|----------------|
| 61-100                 | Excellent      |
| 41-60                  | Good           |
| 21-40                  | Moderate       |
| 1-20                   | Weak           |
| 0                      | Absent         |

\* See menu IP/Wi-Fi Options

## INSTALLATION



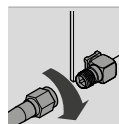
**Cut off the power supply (both power supply unit and battery) before fitting/removing modules! Risk of permanently damaging the expansion module and the control panel board.**



- Insert the spacers in the relevant holes. Press the spacers until they click into the main board.

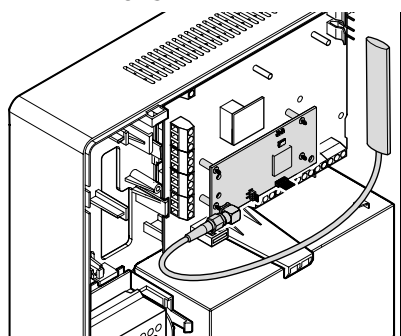


## MOUNTING THE ANTENNA



**Fasten the cable connector onto the gold-coloured connector on the module. The antenna must be correctly connected and the connector must be fully tightened.**

## POSITION WITH ITEM BOXSTANDARD



**Place the antenna inside item BOXSTANDARD**

## POSITION WITH ITEM BOXMETAL



**Place the antenna externally.  
Do not place the antenna on metal surfaces!**

## General information about connecting devices to the bus

As a general precaution, note that the 485 bus cable could cause disturbances on cables carrying video or comparable signals, if the two are laid adjacent to each other. We therefore recommend that you use separate channels for these two types of cable and that you connect the alarm system bus only with shielded and twisted pair cable with known impedance of 120 Ohm.

Non-compliance with the above cable types and methods may cause communication errors or poor quality communication between modules and the control panel. There is also a risk that the conductors of the cables themselves might not be shielded correctly.

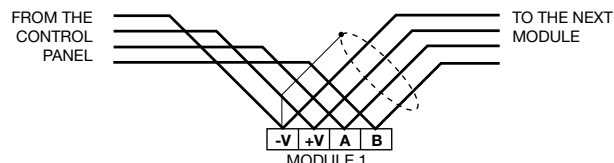
For correct sizing of cables, refer to the table "Shielded cable conductor resistance table" on page 51.



**Alternatively, the antenna can be fitted externally using the relevant outlet cutouts, as shown in the figure.**

**IMPORTANT:** for correct communication between the devices connected to the bus, it is good practice for the devices themselves to be interconnected without branches, i.e. avoid star connections as much as possible. If the use of branches is unavoidable, make sure that they are as short as possible. Consequently, it is advisable to route the bus cable correctly by adhering to the ideal connection and minimising any deviation from it. The best way to connect the devices is to use the "in and out" method.

## CONNECTION TO THE BUS TERMINALS



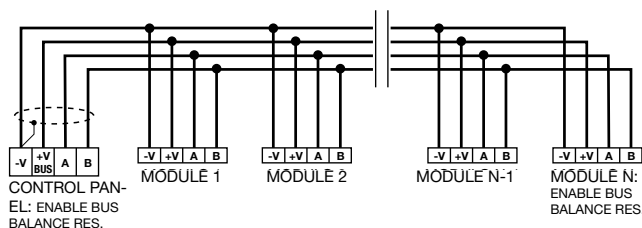
EXAMPLE OF "IN AND OUT" TYPE CONNECTION

## BUS LINE TERMINATION

The two end devices (the two devices furthest from each other in an ideal layout) must balance the line with the appropriate end-of-line resistor (120 ohm). On some devices, this resistor is installed on-board and can be activated by means of a jumper or DIP switch. 1 end-of-line resistor is supplied with the control panel, for use when a device without an on-board termination (e.g. RFID key reader) is connected to the end of the line.

**IMPORTANT:** the control panel can be positioned at any point along the line, provided that the line is correctly terminated in a 120 Ohm balancing resistor at both ends, as shown in the guideline diagram.

## CONNECTION TO THE BUS TERMINALS: GUIDELINE DIAGRAM

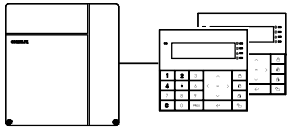


The maximum BUS line operating distance depends on the distribution of peripherals on the line and the current uptake, in particular from keypads and expansion devices. The power supply to peripherals and sensors, in fact, can be provided by external power supply units or units on the same line. A minimum voltage of 11 VDC, provided by the control panel itself or by an external power supply unit, must be guaranteed at the furthest peripheral.

## KEYPADS CONNECTED IN SERIES

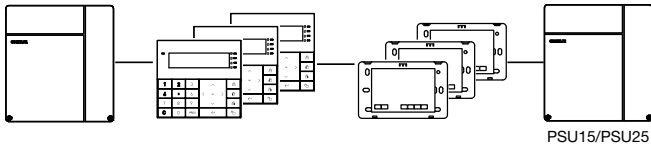
For lengths up to 200 m, use the cable with cross-section 2x0.5 mm+2x0.22 mm.

For lengths 200-500 m, use the cable with cross-section 2x0.75 mm+2x0.22 mm.



The total length of the serial line can be 1000 m.

The cross-section of the cables should be suitable, use the burglar alarm cable 2x1 mm+2x0.5 mm.



**When planning, it is important to establish system independence in the absence of electricity, or rather to specify the time for which the system remains active thanks to the power supplied only by the backup battery without system security being affected.**

To establish independence, you need to perform a calculation, starting with knowledge of the electrical specifications and the absorption of the various system components.

The relationship is obtained from  $B=I \times A$

**B** Battery capacity value

**I** Current absorbed (A)

**A** Duration of independence expressed in hours

Example: To guarantee independence of 12 hours for a system which absorbs a total current of 0.5 A in standby, a 6 Ah battery is required.

*We recommend always using a backup battery with a capacity over 7 Ah, capable of guaranteeing the required independence even with efficiency reduced by 80%.*

## Wiring the inputs

The inputs routed to the control panel or to the peripherals on the bus, including bidirectional inputs when used as inputs, are of universal type.

This means that, depending on their physical connection and their parameter settings on the control panel, they can assume the configurations shown below.

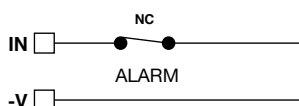
**IMPORTANT:** input balancing resistors, if used, must be installed inside the sensor to which they are associated.



**It is recommended to use a shielded cable for the connections, with one end of the shield connected to V- and the other left free.**

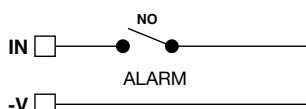
### NORMALLY CLOSED (NC)

**NC:** detects the opening of a normally closed contact connected between an input terminal and the respective negative (-V). It is not capable of detecting a line sabotage status: in the event of cutting, it can generate an error or alarm; in the event of a line short-circuit, it does nothing.



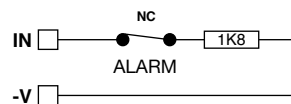
### NORMALLY OPEN (NO)

**NO:** detects the closure of a normally open contact connected between an input terminal and the respective negative (-V). It is not capable of detecting a line sabotage status: in the event of a line short-circuit, it can generate an error or alarm; in the event of cutting, it does nothing.



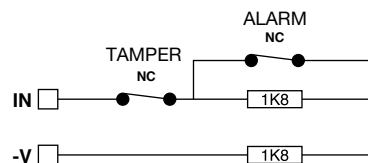
## SINGLE BALANCE

Detects the opening of a normally closed contact disposed in series with a balanced line (on 1.8K) connected between an input terminal and the respective negative (-V). Detects a sabotage status due to a line short-circuit. In the event of cutting, it can generate an error or alarm.



## DOUBLE BALANCED

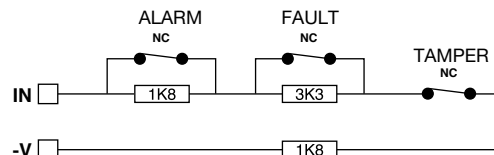
Detects the opening of a normally closed contact disposed in series with a balanced line (on 1.8K) connected between an input terminal and the respective negative (-V). Adding a second balancing resistor (also 1.8K) makes it possible to distinguish an alarm status from a line sabotage status, both in the event of cutting and short-circuit.



**In order to guarantee compliance with standard EN 50131-1, all the alarm, anomaly and control zones must be at least in double balance. Single balance may be enough for sabotage.**

## TRIPLE BALANCED

Detects and distinguishes the opening of two normally closed contacts, usually alarm and electrical fault, disposed in series with a balanced line (on 1.8K) connected between an input terminal and the respective negative (-V). Its ability to distinguish derives from the adoption of a second balancing resistor (1.8K) disposed in parallel to the first of the contacts to be monitored and a third balancing resistor (3.3K). This configuration makes it possible to distinguish between an alarm/electrical fault status and a line sabotage status, both in the event of cutting and short-circuit.

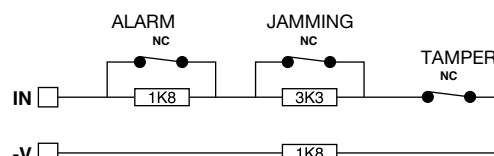


## TRIPLE BALANCE WITH JAMMING

Detects and distinguishes the opening of two normally closed contacts, alarm and jamming of the motion sensor, disposed in series with a balanced line (on 1.8K) connected between an input terminal and the respective negative (-V). Its ability to distinguish derives from the adoption of a second balancing resistor (1.8K) disposed in parallel to the first of the contacts to be monitored and a third balancing resistor (3.3K). This configuration makes it possible to distinguish between an alarm status and jamming of the motion sensor and a line sabotage status, both in the event of cutting and short-circuit.

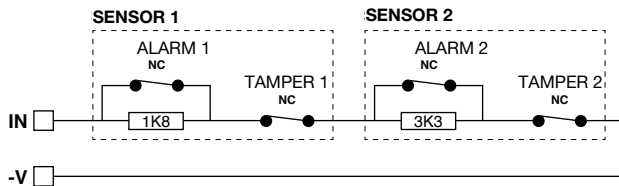


**Jamming will be treated with a dedicated fault event.**



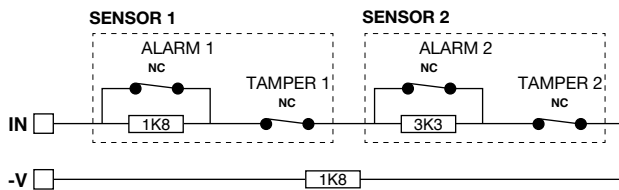
## DOUBLE ZONE

Detects and distinguishes the opening of two normally closed contacts, usually relating to two different sensors, disposed in series with a line with comparable behaviour to that of an NC line, connected between an input terminal and the respective negative (-V). Its ability to distinguish between the two sensors derives from the adoption of a balancing resistor (1.8K) disposed in parallel to the contact of the first sensor to be monitored and a second balancing resistor (3.3K) disposed in parallel with the contact of the second sensor to be monitored. It is not capable of detecting a line sabotage state: in the event of cutting it can generate an error or sabotage; in the event of a line short-circuit it does nothing. The sabotage can only be generically attributed to the wired line for the input to which it is connected.



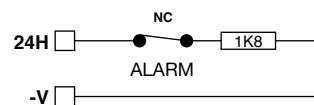
## DOUBLE ZONE WITH END OF LINE (EOL DOUBLE)

Detects and distinguishes the opening of two normally closed contacts, usually relating to two different sensors, disposed in series with a line with a balanced line (1K8) connected between an input terminal and the respective negative (-V). Its ability to distinguish between the two sensors derives from the adoption of a balancing resistor (1.8K) disposed in parallel to the contact of the first sensor to be monitored and a second balancing resistor (3.3K) disposed in parallel to the contact of the second sensor to be monitored. This configuration makes it possible to distinguish between an alarm/electrical fault status and a line sabotage status, both in the event of cutting and short-circuit. The alarms are correctly recognised and assigned to the sensor from which they originate. The sabotage, however, can only be generically attributed to the wired line for the input to which it is connected.



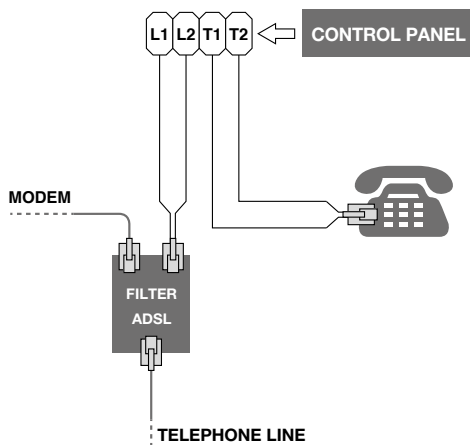
## WIRING THE CONTROL PANEL 24-HOUR INPUT

The 24-hour input must be configured as single balance with a resistance of 1.8 KΩ.



## WIRING THE TELEPHONE DIALLER ON THE PSTN NETWORK

To connect the telephone dialler to the telephone network correctly, you must first locate the point at which the line enters the house. The dialler must be connected as the first device, as viewed from the incoming telephone line.



## Control and display components

### VEDOKP / VEDOKP200: LCD KEYPADS

### VEDOKPR / VEDOKPR200: KEYPADS WITH RFID KEY READER

The LCD keypad allows an authorised user to enable and disable the system, to check the system status and manage its general features, and to check the event log history.

Using the keypad, it is also possible quickly to modify the system settings and the options of each individual output.

Operations are performed by means of a combination of numerical keys and function keys, whereas feedback is both visual (alphanumeric display and LEDs) and audible (buzzer).

The LCD keypad is equipped with 2 freely configurable alarm inputs.

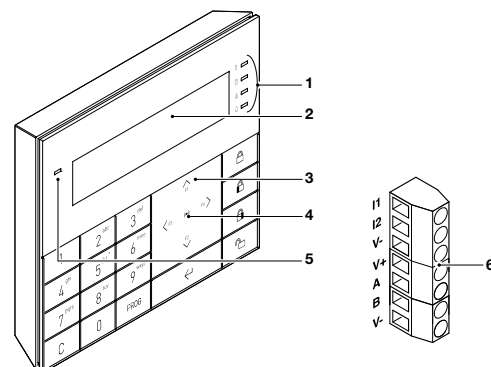
With the VEDO200 control panel, we recommend using VEDOKP200, VEDOKPR200 keypads which differ from VEDOKP, VEDOKPR keypads due to the 16 areas screen-printed under the display.

### Keypads with RFID key reader

- In comparison with VEDOKP and VEDOKP200, the VEDOKPR and VEDOKPR200 keypads have an RFID reader that is compatible with Comelit RFID keys.
- These versions enable users, according to their authorisations, to arm the system partially or totally or disarm it, using an RFID key, without having to enter a code, thereby saving time.
- The RFID reader antenna is positioned centrally in relation to navigation keys F1, F2, F3, F4. The RFID key must be brought close to this area of the housing so that the reader can recognise it correctly.
- The connection terminal block is identical to that of the LCD keypad without RFID reader.

## MAIN FEATURES

- Backlit LCD display 2 x 16 characters.
- 4 LEDs for instant indication of power ON, battery alarm, generic error and alarm in progress.
- Backlit soft-touch keypad with 10 number keys and 11 function keys.
- Light sensor which enables keypad backlighting only in twilight conditions.
- Initial software addressing via built-in keypad.
- 2 universal inputs, configurable as NC, NO, single, double and triple balance, triple balance with jamming, dual zone and dual zone with termination, with option of direct connection of roller blind contacts (switch alarm).
- On-board 485 bus end-of-line resistor, which can be activated by DIP switch.
- Anti-tamper and anti-tear tamper.



1. Indicator LED
2. Display
3. Function keys (programmable)
4. RFID reader (for art. VEDOKPR, VEDOKPR200 only)
5. Ambient light sensor
6. Terminal block

## TECHNICAL SPECIFICATIONS

|                                                     |                                                                                           |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Name of manufacturer / supplier</b>              | Comelit Group S.p.A.                                                                      |
| <b>Dimensions (b x h)</b>                           | 137 x 127 x 24 mm                                                                         |
| <b>Weight</b>                                       | 250 g art. VEDOKP, VEDOKP200<br>260 g art. VEDOKPR, VEDOKPR200                            |
| <b>Consumption (min./max.)</b>                      | 30 mA with LEDs off,<br>80 mA during alarm signalling                                     |
| <b>Operating voltage</b>                            | 10 V <sub>DC</sub> to 15 V <sub>DC</sub>                                                  |
| <b>Operating temperature and Operating humidity</b> | -10 °C / + 55 °C with warm dry air<br>-10 °C / + 40 °C with max. + 93% RH (not condensed) |

\* Observing any indications for configuration and installation

## MEANING OF THE LEDS

The keypad has 4 indicator LEDs:

| Led Colour                                                                          |                                    |                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>Green (power supply status)</b> | <b>Off</b> Mains power not present<br><b>On</b> Mains power present<br><b>Slow flash</b> Mains power OK, but system not ready for enabling or there are (non-excluded) open zones |
|                                                                                     | <b>Green (system status)</b>       | <b>Off</b> No area armed, all areas ready<br><b>On</b> At least one area armed<br><b>Flashing</b> No area armed with areas not ready<br><b>Off</b> Battery OK                     |
|                                                                                     | <b>Yellow</b>                      | Indicates an anomaly in the battery of the control unit and/or of a bus power supply unit                                                                                         |
|  | <b>Yellow</b>                      | <b>Off</b> No problem<br><b>On</b> Anomaly detected<br><b>Slow flash</b> Presence of isolated, excluded or inhibited zones, or of temporarily excluded anomalies/sabotages        |
|                                                                                     | <b>Red</b>                         | <b>Off</b> No alarm, sabotage or ongoing fault<br><b>On</b> Alarm, sabotage or fault<br><b>Slow flash</b> Alarm event log, sabotage or fault                                      |

## DESCRIPTION OF TERMINAL BLOCK

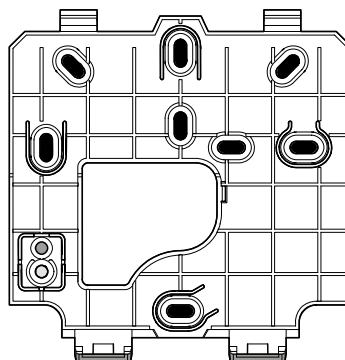
|           |                                                 |
|-----------|-------------------------------------------------|
| <b>I1</b> | Input 1                                         |
| <b>I2</b> | Input 2                                         |
| <b>V-</b> | Power supply negative input / Inputs reference  |
| <b>V+</b> | Power supply positive input 13.8V <sub>DC</sub> |
| <b>A</b>  | RS485 - A data bus                              |
| <b>B</b>  | RS485 - B data bus                              |
| <b>V-</b> | Negative power supply input                     |

## DIP SWITCHES AND BUS TERMINATION

|              | ON                     | OFF                      |
|--------------|------------------------|--------------------------|
| <b>DIP 1</b> | Tamper disabled        | Tamper active            |
| <b>DIP 2</b> | Bus termination active | Bus termination disabled |
| <b>DIP 3</b> | Buzzer active          | Buzzer disabled          |

## INSTALLATION

The base of the keypads, both with and without RFID reader, has a series of slots in it to ensure versatility of mounting on a wide range of supports, starting with the ordinary type 503 box.



|                                                                                   |                             |
|-----------------------------------------------------------------------------------|-----------------------------|
|  | Fixing holes                |
|  | Cable inlet hole            |
|  | Elastic closure clips       |
|  | Position of silicone tamper |
|  | Anti-tear tamper hole       |

## MOUNTING ON BOX 503 AND SURFACE MOUNTING

 Page 38

 **When closing the housing, make sure that the silicone rubber on the tamper is still in place.**

## ACCESSING THE KEYPAD CONFIGURATION MENU

The local programming menu can be used to set:

- Device ID
  - BUS speed
  - Buzzer volume
  - Display contrast
  - Keypad and display backlighting level
- To enter configuration mode, press **←** and **PROG** simultaneously  
**When you enter the local configuration menu, the keypad will be temporarily disconnected from the BUS.**

## VEDO5TPR / VEDO5TPRW: KEYPAD WITH 5-INCH TOUCHSCREEN DISPLAY AND RFID KEY READER

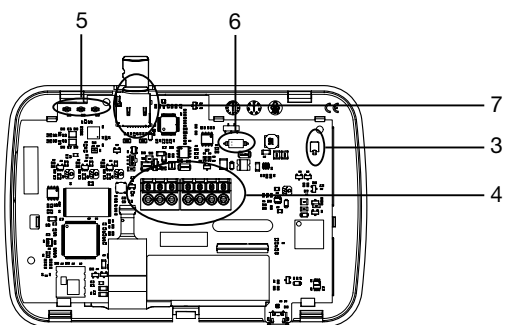
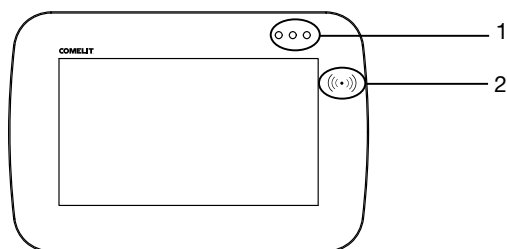
VEDO5TPR / VEDO5TPRW features an innovative interface in the form of a 5-inch touchscreen. The level of interaction makes it possible for an authorised user to perform all operations that can be carried out from the keypad, whether relating to user procedures or the configuration of the controls. Its straightforward user interface, along with well-organised menus, texts, symbols and colours, makes all its functions easy to understand and use.

The RFID reader's antenna is positioned on the right-hand side of the VEDO5TPR / VEDO5TPRW, and is clearly identified by a symbol screen-printed on the surface of the frame. The RFID key must be brought close to this area so that the reader can recognise it correctly.

The predisposed mountings are designed for fitting the VEDO5TPR / VEDO5TPRW directly onto a standard type 503 box.

### MAIN FEATURES

- 5" resistive touch panel
- Mechanical tamper
- RS-485 bus interface for direct alarm connection
- Alarm keypad emulation
- Built-in RFID reader as standard



1. Indicator LED (front)
2. RFID reader
3. Tamper
4. Terminal block for connection
5. Indicator LED (back)
6. BUS line termination
7. SD card



The RS-485 bus for the device should only be connected to the alarm bus for the COMELIT VEDO control panel.

### TECHNICAL SPECIFICATIONS

|                                 |                                                                                 |
|---------------------------------|---------------------------------------------------------------------------------|
| Name of manufacturer / supplier | Comelit Group S.p.A.                                                            |
| Dimensions (w x h x d)          | 154 x 103 x 17 mm                                                               |
| Weight                          | 200 g                                                                           |
| Colour                          | VEDO5TPR: white base with black frame<br>VEDO5TPRW: white base with white frame |
| Consumption (min./max.)         | 60 mA display off<br>150 mA maximum                                             |
| Operating voltage               | 10 V $\pm$ to 24 V $\pm$                                                        |
| Operating temperature           | -15° / +55°C                                                                    |
| Operating humidity              | max +85% RH (not condensed)                                                     |

### RS-485 BUS LINE TERMINATION

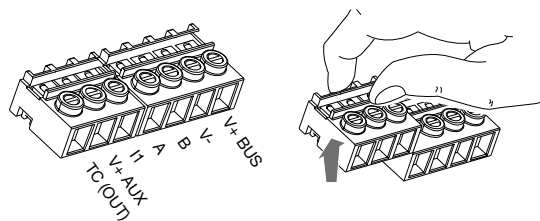
**JP800** If activated, enables termination of the RS-485 bus line

### LED MEANINGS

The device features an LED signalling system to indicate the system status.

|                        |                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------|
| <b>Green ON</b>        | System armed                                                                                       |
| <b>Flashing green</b>  | System not ready                                                                                   |
| <b>Green OFF</b>       | Ready to arm                                                                                       |
| <b>Yellow ON</b>       | Problem detected                                                                                   |
| <b>Flashing yellow</b> | Presence of isolated, excluded or inhibited zones, or of temporarily excluded anomalies/sabotages. |
| <b>Yellow OFF</b>      | No fault detected                                                                                  |
| <b>Red ON</b>          | System in alarm                                                                                    |
| <b>Flashing red</b>    | Alarm Memory                                                                                       |
| <b>Red OFF</b>         | No alarm detected                                                                                  |

### TERMINAL BLOCK DESCRIPTION



|                 |                                                        |
|-----------------|--------------------------------------------------------|
| <b>V+ BUS</b>   | Power supply positive                                  |
| <b>V-</b>       | Power supply negative                                  |
| <b>A</b>        | RS-485 data bus - A                                    |
| <b>B</b>        | RS-485 data bus - B                                    |
| <b>I1</b>       | Input connection                                       |
| <b>V+ AUX</b>   | Auxiliary power supply positive                        |
| <b>TC (OUT)</b> | Programmable output connection (OC output, MAX. 100mA) |

### ADDRESSING THE DEVICE ON THE BUS

Like any other device connected to the RS-485 bus, VEDO5TPR / VEDO5TPRW must respond to a single address that can be configured from the display.

- ▶ Access the settings menu by pressing
- ▶ Type in the installer code (default=001961) and confirm
- ▶ Follow the path "Alarm options → Configuration → Device ID"
- ▶ Type in the identification number of the device on the bus



### SETTING THE SPEED

- ▶ Access the settings menu by pressing
  - ▶ Type in the installer code (default=001961) and confirm
  - ▶ Follow the path "Alarm options → Configuration → RS-485 bus speed"
  - ▶ Select the desired speed.
- It is important to make sure that the value is the same as in the Safe Manager configuration software (default 38400)**

## VEDOLCD: LCD KEYPAD

## VEDOLCDPROX: KEYPAD WITH RFID KEY READER

The relevant manuals are available on the web page for each product, on the website [pro.comelitgroup.com](http://pro.comelitgroup.com)

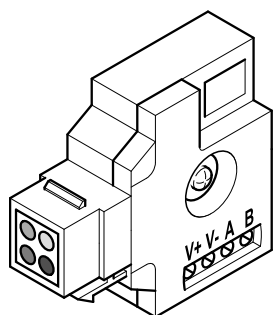
## VEDOPROX/ VEDOPROXA: RFID PROXIMITY READER ON BUS

The RFID proximity reader on bus allows activation and deactivation with RFID keys without contact. An RFID key can be associated with each user. Each key can operate on the zones and areas for which the associated user is enabled.

Its mechanical configuration is such that it can be installed directly on all domestic series that use an adapter for Keystone standard RJ45 network connector. It is compatible with Comelit RFID keys.

### MAIN FEATURES

- Simplified mounting with Keystone generic RJ45 adapter on domestic series frames.
- Four LEDs with partially assignable functions.
- Quick total activation option.
- Choice of several activation modes.
- Physical addressing by means of DIP switch.



### TECHNICAL SPECIFICATIONS

|                                 |                                                                        |
|---------------------------------|------------------------------------------------------------------------|
| Name of manufacturer / supplier | Comelit Group S.p.A.                                                   |
| Dimensions (w x h x d)          | 55 x 48 x 19 mm                                                        |
| Weight                          | 28 g                                                                   |
| Consumption (min./max.)         | 10 mA in idle status<br>15 mA with LEDs on<br>45 mA during key reading |
| Operating voltage               | 10 - 15 V $\pm$                                                        |
| Operating temperature           | -10° / + 40°C                                                          |
| Operating humidity              | max. 85% (not condensed)                                               |
| Device Type                     | B according to EN50131-3                                               |
| Environmental class             | Environmental class II                                                 |

### SPEED SETTING

**At first start-up, the RFID reader is ready to communicate at 38400 baud rate.**

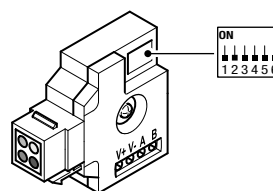
To modify the communication speed, proceed as follows:

√ Device powered.

1. Set DIP6 to ON.
  - » The LEDs on the RFID reader will light up until they are all lit, and will then all turn off and start lighting up again (learning mode)
2. Set DIP1 and DIP2 (as indicated in the table to configure the desired speed).
3. Once you have selected the speed, move DIP6 back to OFF.
  - » The speed will now remain set.
4. Set DIP switches 1 to 5 according to the address to be set (as described in the following chapter).

| BAUD    | DIP1 | DIP2 |
|---------|------|------|
| 9600    | OFF  | OFF  |
| 38400 * | ON   | OFF  |
| 57600   | OFF  | ON   |
| 115200  | ON   | ON   |

\* The default speed of the bus for Vedo control panels is 38400 baud.



### ADDRESSING

DIP switches 1 to 5 are for addressing the reader on the bus; in the current version, only addresses 1 to 16 are used, so **DIP5** must be left set to OFF.

| Code | DIP1 | DIP2 | DIP3 | DIP4 | DIP5 |
|------|------|------|------|------|------|
| 1    | OFF  | OFF  | OFF  | OFF  | OFF  |
| 2    | ON   | OFF  | OFF  | OFF  | OFF  |
| 3    | OFF  | ON   | OFF  | OFF  | OFF  |
| 4    | ON   | ON   | OFF  | OFF  | OFF  |
| 5    | OFF  | OFF  | ON   | OFF  | OFF  |
| 6    | ON   | OFF  | ON   | OFF  | OFF  |
| 7    | OFF  | ON   | ON   | OFF  | OFF  |
| 8    | ON   | ON   | ON   | OFF  | OFF  |
| 9    | OFF  | OFF  | OFF  | ON   | OFF  |
| 10   | ON   | OFF  | OFF  | ON   | OFF  |
| 11   | OFF  | ON   | OFF  | ON   | OFF  |
| 12   | ON   | ON   | OFF  | ON   | OFF  |
| 13   | OFF  | OFF  | ON   | ON   | OFF  |
| 14   | ON   | OFF  | ON   | ON   | OFF  |
| 15   | OFF  | ON   | ON   | ON   | OFF  |
| 16   | ON   | ON   | ON   | ON   | OFF  |

### DESCRIPTION OF TERMINAL BLOCK

|    |                             |
|----|-----------------------------|
| V+ | Positive power supply input |
| V- | Negative power supply input |
| A  | RS485 - A data bus          |
| B  | RS485 - B data bus          |

### 485 LINE TERMINATION

If the RFID reader is connected as the final point of the bus line, you need to connect a 120 ohm resistor (supplied) in parallel to the 485 bus line, i.e. between terminals A and B.

### MEANING OF THE LEDS

The reader has 4 indicator LEDs, the meaning of which varies according to reader status:

- **Reader in standby (no cycle in progress):** the LEDs indicate the operating status of the areas enabled on the reader
- **Cycle in progress:** the LEDs light up in sequence to provide users with an indication of which scenarios are available, allowing them to make a choice
- **During key presentation**

The cycle actions associated with the LEDs by default are:

- Red LED: Total activation
- Yellow LED: Scenario P1
- Blue LED: Scenario P2
- Green LED: Scenario P1+P2

**IMPORTANT:** the actions associated with the LEDs can be changed by the installer during system programming.

#### MEANING OF THE LEDS WITH THE READER IN STANDBY (NO CYCLE IN PROGRESS)

|                   |                   |                                                                      |
|-------------------|-------------------|----------------------------------------------------------------------|
| <b>Red LED</b>    | <b>On</b>         | Scenario associated with the Red LED active                          |
|                   | <b>Slow flash</b> | System not armed and alarm, tampering or fault event memory present  |
|                   | <b>Fast flash</b> | System armed and alarm, tampering or fault event memory present      |
| <b>Blue LED</b>   | <b>On</b>         | Scenario associated with the Blue LED active                         |
|                   | <b>Slow flash</b> | System activated with unknown scenario (not saved)                   |
| <b>Yellow LED</b> | <b>On</b>         | Scenario associated with the Yellow LED active                       |
|                   | <b>Fast flash</b> | Fault present                                                        |
| <b>Green LED</b>  | <b>On</b>         | Scenario associated with the Green LED active                        |
|                   | <b>Fast flash</b> | System not ready for enabling or there are (non-excluded) open zones |

#### MEANING OF THE LEDS WHEN THE CYCLE IS IN PROGRESS

|                   |                                                                              |
|-------------------|------------------------------------------------------------------------------|
| <b>On</b>         | Request execution of action associated with the corresponding LED            |
| <b>Slow flash</b> | Action associated with the corresponding LED requires forcing to be executed |

#### MEANING OF LEDS DURING PRESENTATION OF THE KEY

|                   |                                                                                        |
|-------------------|----------------------------------------------------------------------------------------|
| <b>Off</b>        | Request for deactivation of all areas covered by the reader.                           |
| <b>On</b>         | Request for activation of the activation profile associated with the corresponding LED |
| <b>Fast flash</b> | The reader is forcing the activation profile associated with the corresponding LED (*) |

(\*) The purpose of forcing is to overcome a 'not ready' condition in one or more of the zones associated with the areas covered by the reader, and/or an anomaly which can be overridden due to the choices made at the time of control panel configuration.

#### MOUNTING THE RFID KEY READER ON BUS

- ✓ To mount the RFID key reader, you need to use an interface plate for standard Keystone RJ45 sockets that is compatible with the domestic series you intend to use.
- Simply connect the adapter to the plate and then plug the reader into the adapter, pressing it fully home until you hear the two parts engage.

#### SK9050X/A: RFID KEYS

The keys are made using high-security, bidirectional RFID transponders.

The technology used is such that the keys can communicate with the reader without any need for electrical contacts and hence with problems of contact wear. This ensures that performance remains high over time.

Used in conjunction with the RFID key readers (on bus, on keypad, on VEDO5TPR / Vedo Touch, on Minitouch or on Planux Manager), they make it possible to activate and deactivate the system without any need for electrical contact. An RFID key can be associated with each user. Each key can operate on the zones and areas for which the associated user is enabled.

They are available in various colours and their housing is shaped in such a way that they can easily be added to a bunch of keys on a keyring, so that they are always to hand.

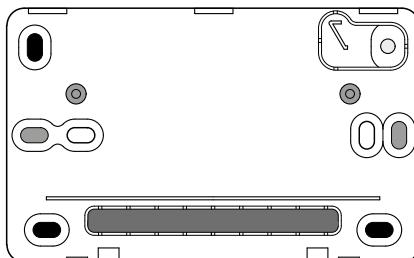
The unique ID of the digital key is defined by the crc32 of the bytes that form the unique code of the key, and can have a value between 1 and  $2^{32}-1$ , therefore generating a maximum number of  $2^{32}-2$  possible values.

## Expansions on 485 bus

The expansion devices on bus VEDO8I80 / VEDO8I80A and RF10VEDO / RF32VEDO are supplied complete with plastic housing which complies with standard EN 50131; they can therefore also be installed outside BOXSTANDARD and BOXMETAL products.

The housing can be surface-mounted or installed in flush-mounted boxes on the wall. A pre-marked section on the bottom is for routing the cables through, and another pre-marked section in the top right-hand corner, coinciding with a fixing hole, provides anti-tear protection.

#### PLASTIC EXPANSION HOUSING



|  |                                                                        |
|--|------------------------------------------------------------------------|
|  | Wall mounting holes                                                    |
|  | Optional fixing holes                                                  |
|  | Pre-marked optional fixing holes                                       |
|  | Cable inlet hole                                                       |
|  | Anti-tear tamper hole                                                  |
|  | Fixing holes for board art. VEDO8I80 / VEDO8I80A / RF10VEDO / RF32VEDO |

#### INSTALLATION

Page 40



To ensure anti-tear protection, the hole associated with the pre-marked area with anti-tear function must always be anchored to the wall. Failure to anchor this section will make the anti-tear protection useless.

**IMPORTANT:** when refitting the expansion card in its housing, make sure that the anti-tear tamper (the one furthest to the left as viewed in the illustrations on page 40) is held properly closed by the latch in the pre-marked anti-tear area of the housing.

In order to guarantee compliance with standards EN 50131-1 and EN 50131-3, expansion devices VEDO8I80 / VEDO8I80A and RF10VEDO / RF32VEDO, if installed outside the control panel housing, must have their anti-sabotage and anti-tear contacts enabled, and so the corresponding jumpers on the expansion devices must be connected (jumpers JP1 and JP2 for VEDO8I80/VEDO8I80A, jumpers JP7 and JP8 for RF10VEDO / RF32VEDO)

#### VEDO8I80 / VEDO8I80A: EXPANSION ON BUS

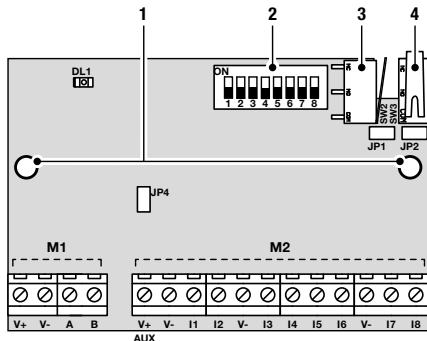
Expansion module for Vedo series control panels, 8 terminals freely configurable as inputs (can be set as NC, NO, single/double/triple balance, double zone and double zone with termination) or outputs (open collector, 100 mA max.). Housed in a plastic flame-resistant container, colour white RAL9003, complete with anti-opening and anti-tear tamper which can both be excluded. It can also be removed from the container for housing directly inside containers art. BOXSTANDARD, BOXPLASTIC, BOXMETAL and BOXFLUSH.



The product complies with standards EN 50131-1, EN50131-3 grade 2.

## MAIN FEATURES

- 8 terminals that can be individually configured as inputs or outputs
- Inputs can be configured as NC, NO, single, double balance, triple balance, triple balance with jamming, double zone and double zone with termination
- Option of direct connection with shutter contacts and inertial sensors (signal analysis function with pulse counting)
- Open collector outputs (100 mA max.) can be configured as monostable, monostable with configurable pattern, bistable or bistable with configurable pattern
- Anti-tamper and anti-tear tamper
- On-board 485 bus terminal resistor, which can be activated by means of a jumper
- Addressed by means of DIP switch



1. Holes for fixing to the housing container
2. DIP switches
3. Anti-tear tamper
4. Anti-tamper tamper

## TECHNICAL SPECIFICATIONS

|                                                     |                                                                                      |
|-----------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Name of manufacturer / supplier</b>              | Comelit Group S.p.A.                                                                 |
| <b>Dimensions (w x h x d)</b>                       | 126 x 80 x 32 mm (in the housing)                                                    |
| <b>Weight</b>                                       | 134g with housing<br>39 g card only                                                  |
| <b>Consumption (min./max.)</b>                      | 22 mA/27 mA excluding the current supplied by the output                             |
| <b>Operating voltage</b>                            | 10 - 15 V $\pm$                                                                      |
| <b>Operating temperature and Operating humidity</b> | -10 °C / + 55 °C with warm dry air<br>-10 / + 40 °C with max. 93% RH (not condensed) |
| <b>Certified safety grade</b>                       | 2 according to EN50131-1*                                                            |
| <b>Device Type</b>                                  | TYPE B according to standard EN50131-3                                               |
| <b>Environmental class</b>                          | II according to EN50131-1                                                            |

\* Observing any indications for configuration and installation.

## CONFIGURATION JUMPERS

|            |                                                        |
|------------|--------------------------------------------------------|
| <b>JP1</b> | If activated, disables anti-removal (anti-tear) tamper |
| <b>JP2</b> | If activated, disables anti-opening tamper             |
| <b>JP4</b> | If activated, enables 485 bus terminal resistor        |

## ADDRESSING

DIP switches 1 to 6 are for addressing the module on the bus. In the current version, only addresses 1 to 50 are used.

| code | DIP1 | DIP2 | DIP3 | DIP4 | DIP5 | DIP6 |
|------|------|------|------|------|------|------|
| 1    | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  |
| 2    | ON   | OFF  | OFF  | OFF  | OFF  | OFF  |
| 3    | OFF  | ON   | OFF  | OFF  | OFF  | OFF  |
| 4    | ON   | ON   | OFF  | OFF  | OFF  | OFF  |
| 5    | OFF  | OFF  | ON   | OFF  | OFF  | OFF  |
| 6    | ON   | OFF  | ON   | OFF  | OFF  | OFF  |
| 7    | OFF  | ON   | ON   | OFF  | OFF  | OFF  |

| code | DIP1 | DIP2 | DIP3 | DIP4 | DIP5 | DIP6 |
|------|------|------|------|------|------|------|
| 8    | ON   | ON   | ON   | OFF  | OFF  | OFF  |
| 9    | OFF  | OFF  | OFF  | ON   | OFF  | OFF  |
| 10   | ON   | OFF  | OFF  | ON   | OFF  | OFF  |
| 11   | OFF  | ON   | OFF  | ON   | OFF  | OFF  |
| 12   | ON   | ON   | OFF  | ON   | OFF  | OFF  |
| 13   | OFF  | OFF  | ON   | ON   | OFF  | OFF  |
| 14   | ON   | OFF  | ON   | ON   | OFF  | OFF  |
| 15   | OFF  | ON   | ON   | ON   | OFF  | OFF  |
| 16   | ON   | ON   | ON   | ON   | OFF  | OFF  |
| 17   | OFF  | OFF  | OFF  | OFF  | ON   | OFF  |
| 18   | ON   | OFF  | OFF  | OFF  | ON   | OFF  |
| 19   | OFF  | ON   | OFF  | OFF  | ON   | OFF  |
| 20   | ON   | ON   | OFF  | OFF  | ON   | OFF  |
| 21   | OFF  | OFF  | ON   | OFF  | ON   | OFF  |
| 22   | ON   | OFF  | ON   | OFF  | ON   | OFF  |
| 23   | OFF  | ON   | ON   | OFF  | ON   | OFF  |
| 24   | ON   | ON   | ON   | OFF  | ON   | OFF  |
| 25   | OFF  | OFF  | OFF  | ON   | ON   | OFF  |
| 26   | ON   | OFF  | OFF  | ON   | ON   | OFF  |
| 27   | OFF  | ON   | OFF  | ON   | ON   | OFF  |
| 28   | ON   | ON   | OFF  | ON   | ON   | OFF  |
| 29   | OFF  | OFF  | ON   | ON   | ON   | OFF  |
| 30   | ON   | OFF  | ON   | ON   | ON   | OFF  |
| 31   | OFF  | ON   | ON   | ON   | ON   | OFF  |
| 32   | ON   | ON   | ON   | ON   | ON   | OFF  |
| 33   | OFF  | OFF  | OFF  | OFF  | OFF  | ON   |
| 34   | ON   | OFF  | OFF  | OFF  | OFF  | ON   |
| 35   | OFF  | ON   | OFF  | OFF  | OFF  | ON   |
| 36   | ON   | ON   | OFF  | OFF  | OFF  | ON   |
| 37   | OFF  | OFF  | ON   | OFF  | OFF  | ON   |
| 38   | ON   | OFF  | ON   | OFF  | OFF  | ON   |
| 39   | OFF  | ON   | ON   | OFF  | OFF  | ON   |
| 40   | ON   | ON   | ON   | OFF  | OFF  | ON   |
| 41   | OFF  | OFF  | OFF  | ON   | OFF  | ON   |
| 42   | ON   | OFF  | OFF  | ON   | OFF  | ON   |
| 43   | OFF  | ON   | OFF  | ON   | OFF  | ON   |
| 44   | ON   | ON   | OFF  | ON   | OFF  | ON   |
| 45   | OFF  | OFF  | ON   | ON   | OFF  | ON   |
| 46   | ON   | OFF  | ON   | ON   | OFF  | ON   |
| 47   | OFF  | ON   | ON   | ON   | OFF  | ON   |
| 48   | ON   | ON   | ON   | ON   | OFF  | ON   |
| 49   | OFF  | OFF  | OFF  | OFF  | ON   | ON   |
| 50   | ON   | OFF  | OFF  | OFF  | ON   | ON   |

## SETTING THE SPEED OF THE BOARD ON THE BUS

| BAUD    | DIP7 | DIP8 |
|---------|------|------|
| 9600    | OFF  | OFF  |
| 38400 * | ON   | OFF  |
| 57600   | OFF  | ON   |
| 115200  | ON   | ON   |

\* The standard speed of the bus for Vedo control panels is 38400 baud.

## TERMINAL BLOCK M1

|           |                             |
|-----------|-----------------------------|
| <b>V+</b> | Positive power supply input |
| <b>V-</b> | Negative power supply input |
| <b>A</b>  | RS485 - A data bus          |
| <b>B</b>  | RS485 - B data bus          |

## TERMINAL BLOCK M2

|               |                                                |
|---------------|------------------------------------------------|
| <b>V+ AUX</b> | Power supply positive output                   |
| <b>V-</b>     | Power supply negative - output reference       |
| <b>I1</b>     | Input 1 / Output 1                             |
| <b>I2</b>     | Input 2 / Output 2                             |
| <b>V-</b>     | Power supply negative input / Inputs reference |

|           |                                                |
|-----------|------------------------------------------------|
| <b>I3</b> | Input 3 / Output 3                             |
| <b>I4</b> | Input 4 / Output 4                             |
| <b>I5</b> | Input 5 / Output 5                             |
| <b>I6</b> | Input 6 / Output 6                             |
| <b>V-</b> | Power supply negative input / Inputs reference |
| <b>I7</b> | Input 7 / Output 7                             |
| <b>I8</b> | Input 8 / Output 8                             |

## LED MEANINGS

|            |                                                  |                        |
|------------|--------------------------------------------------|------------------------|
| <b>DL1</b> | <b>fast flashing</b><br>(50 ms ON / 50 ms OFF)   | BUS connection working |
|            | <b>slow flashing</b><br>(200 ms ON / 200 ms OFF) | BUS connection error   |

## INSTALLATION

The product VEDO8I8O/ VEDO8I8OA can be installed in:

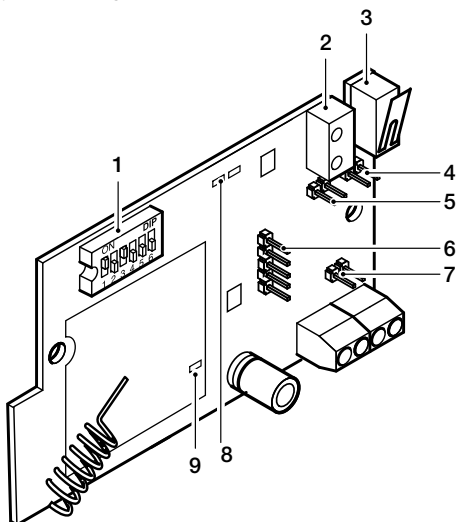
- plastic housing art. BOXSTANDARD  Page 34
- plastic housing for expansion  Page 27, 40
- metal housing art. BOXMETAL  Page 36

## RF10VEDO / RF32VEDO: BIDIRECTIONAL RADIO EXPANSION ON BUS

The modules operate in two-way mode (reception and transmission). This makes it possible to pair radio controls, radio alarm sensors (contacts and/ or volumetric detectors) and supervised wireless sounders with the control panel.

## MAIN FEATURES

- Up to 10 radio zones (RF10VEDO) or 32 radio zones (RF32VEDO)
- Up to 8 radio outputs (RF10VEDO) or 16 radio outputs (RF32VEDO)
- Up to 16 radio controls (RF10VEDO) or 32 radio controls (RF32VEDO)
- Option of bidirectional communication
- Operating frequency in 868 MHz band, FSK mode
- Sensor and sounder status monitoring
- Separate management of intruder and sabotage alarms
- Radio device power supply monitoring, including sounders
- System management



- DIP switches
- Anti-tear tamper
- Anti-tamper tamper
- JP6
- JP7
- JP3
- JP1
- LED D4
- Radio channel LED

## TECHNICAL SPECIFICATIONS

|                                                     |                                                                                           |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Name of manufacturer / supplier</b>              | Comelit Group S.p.A.                                                                      |
| <b>Dimensions (w x h x d)</b>                       | 126 x 80 x 32 mm (in the housing)                                                         |
| <b>Weight</b>                                       | 128g with housing<br>35g board only                                                       |
| <b>Consumption (min./max.)</b>                      | 55 mA medium, 60 mA max.                                                                  |
| <b>Operating voltage</b>                            | 10 - 15 V $\overline{\text{DC}}$                                                          |
| <b>Operating temperature and Operating humidity</b> | -10 °C / + 55 °C with warm dry air<br>-10 °C / + 40 °C with max. + 93% RH (not condensed) |
| <b>Device Type</b>                                  | TYPE B according to standard EN50131-3                                                    |
| <b>Environmental class</b>                          | II according to EN50131-1                                                                 |

## CONFIGURATION JUMPERS

|            |                                                        |
|------------|--------------------------------------------------------|
| <b>JP1</b> | If activated, enables 485 bus terminal resistor        |
| <b>JP3</b> | Reserved                                               |
| <b>JP6</b> | If activated, disables anti-removal (anti-tear) tamper |
| <b>JP7</b> | If activated, disables anti-opening tamper             |

## ADDRESSING

DIP switches 1 to 4 are for addressing the module on the bus. In the current version, only addresses 1 to 8 are used, so DIP4 must be left set to OFF.

| No. | DIP1 | DIP2 | DIP3 | DIP4 |
|-----|------|------|------|------|
| 1   | OFF  | OFF  | OFF  | OFF  |
| 2   | ON   | OFF  | OFF  | OFF  |
| 3   | OFF  | ON   | OFF  | OFF  |
| 4   | ON   | ON   | OFF  | OFF  |
| 5   | OFF  | OFF  | ON   | OFF  |
| 6   | ON   | OFF  | ON   | OFF  |
| 7   | OFF  | ON   | ON   | OFF  |
| 8   | ON   | ON   | ON   | OFF  |

## SETTING THE SPEED OF THE BOARD ON THE BUS

| BAUD    | DIP5 | DIP6 |
|---------|------|------|
| 9600    | OFF  | OFF  |
| 38400 * | ON   | OFF  |
| 57600   | OFF  | ON   |
| 115200  | ON   | ON   |

\* The standard speed of the bus for Vedo control panels is 38400 baud.

## TERMINAL BLOCK DESCRIPTION

|           |                             |
|-----------|-----------------------------|
| <b>V+</b> | Positive power supply input |
| <b>V-</b> | Negative power supply input |
| <b>A</b>  | RS485 - A data bus          |
| <b>B</b>  | RS485 - B data bus          |

## LED MEANINGS

|                          | Flashing                             | Meaning                     |
|--------------------------|--------------------------------------|-----------------------------|
| <b>D4</b>                | <b>fast</b> (50 ms ON / 50 ms OFF)   | expansion connected         |
|                          | <b>slow</b> (200 ms ON / 200 ms OFF) | expansion not connected     |
| <b>Radio channel LED</b> | <b>fixed</b>                         | active radio channel        |
|                          | <b>flashing</b>                      | searching for radio channel |

## INSTALLATION

The product RFRF10VEDO / RF32VEDO can be installed in:

- plastic housing art. BOXSTANDARD  Page 34
- plastic housing for expansion  Page 27, 40



**Expansion device art. RF10VEDO / RF32VEDO cannot be mounted inside metal housing art. BOXMETAL.**

## WIRELESS SENSORS AND ACCESSORIES

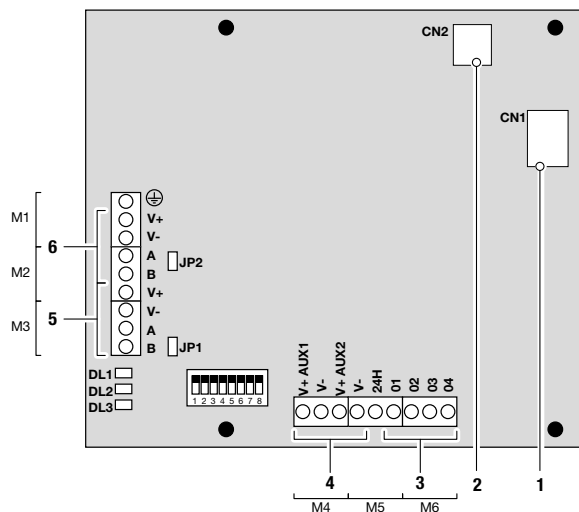
For further information on the correct positioning and mounting of wireless sensors and sirens, refer to the respective instruction sheets enclosed with the devices in question:

- Radio magnetic contact, 1 input, white (art. RF1MCW)
- Radio magnetic contact, 1 input, brown (art. RF1MCB)
- Radio magnetic contact, 2 inputs, white (art. RF2MCW)
- Radio magnetic contact, 2 inputs, brown (art. RF2MCB)
- Indoor radio volumetric sensor (art. RF12PIR)
- Triple-technology outdoor radio volumetric sensor (art. RFOPTT)
- Dual-PIR outdoor radio volumetric sensor (art. RFOPDP)
- Radio flooding sensor (art. RFH2O)
- Radio smoke sensor (art. RFSMK)
- 4-key radio control (art. RF4KEY/RF4KEYW)
- Radio panic button (art. RFPA)
- Outdoor radio sounder (art. RFSIR702)
- Indoor radio sounder (art. RFSIR102)

## PCBPSU: POWER SUPPLY CARD ON BUS

This device can be used to expand systems by providing:

- a new branch to the RS485 data BUS, electrically isolated with the corresponding power supply output
- 2 auxiliary power supply outputs
- 4 Open Collector indication outputs
- one terminal for tamper contact



- CN1 PSU connector
- CN2 Battery connector
- Outputs
- Outputs Power Supply
- Data BUS OUT
- Data BUS IN

● Holes for fixing the PCBPSU board to the BOXMETAL housing.

## MAIN FEATURES

**The auxiliary power supplies** provided by the board are acquired by the mains power supply units connected to connector CN1.

**The Open Collector outputs** are configured to provide fault and anomaly indications.

If the power supply unit is not connected to a control panel, the indication delay times are as follows: power supply network alarm delay=1 minute, battery alarm delay=5 minutes.

When the device is connected to a Vedo series control panel, it is possible to monitor the status of the auxiliary power supplies and the power supply unit itself. In this case network alarm delay and battery alarm delay times can be configured (using the keypad or the Safe Manager software).

## TECHNICAL SPECIFICATIONS

|                                                                                             |                            |                                                                                           |
|---------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------|
| <b>Name of manufacturer / supplier</b>                                                      |                            | Comelit Group S.p.A.                                                                      |
| <b>Dimensions (w x h x d)</b>                                                               |                            | 140x127x23 mm                                                                             |
| <b>Weight</b>                                                                               |                            | 115 g                                                                                     |
| <b>Housings supported</b>                                                                   |                            | Art. BOXSTANDARD    Art. BOXMETAL                                                         |
| <b>Power supply units supported</b>                                                         | Art. PSU15                 | Art. PSU15                                                                                |
|                                                                                             | Art. PSU25                 | Art. PSU25<br>Art. PSU50                                                                  |
| <b>Batteries supported</b>                                                                  | Art. 30076003<br>12 V/7 Ah | Art. 30076003<br>12 V/7 Ah<br>Art. 30076004<br>12 V and 18 Ah                             |
|                                                                                             |                            |                                                                                           |
| <b>Max. battery charging current</b>                                                        |                            | 0.8A                                                                                      |
| <b>Battery 80% charging time</b>                                                            |                            | 8h                      8h/19h                                                            |
| <b>Low Battery Fault Generation in presence of EPS</b>                                      |                            | 12 V                                                                                      |
| <b>Low Battery Fault Generation in absence of EPS</b>                                       |                            | 11.5 V                                                                                    |
| <b>Switch-off art. PCBPSU in absence of EPS for Protection against Deep Discharges</b>      |                            | 10.5 V                                                                                    |
| <b>Intervention voltage of the protection against voltage surges: battery disconnection</b> |                            | 15 V                                                                                      |
| <b>Maximum current for Outputs V+BUS OUT, V+AUX1, V+AUX2</b>                                |                            | 1.5A                                                                                      |
| <b>Output voltage operating range (V+BUS OUT, V+AUX1, V+AUX2)</b>                           |                            | 10-15 V                                                                                   |
| <b>CN1 input voltage operating range</b>                                                    |                            | 12.8-15 V                                                                                 |
| <b>CN2 input voltage operating range (Battery)</b>                                          |                            | 10.5-15 V                                                                                 |
| <b>Control panel board consumption art. PCBPSU (min./max.)</b>                              |                            | 15 / 20 mA                                                                                |
| <b>Maximum current available for external devices</b>                                       |                            | <b>Grade 2:</b> 550 mA <b>Grade 2:</b> 1.45A                                              |
| <b>Maximum current delivered to outputs TC1 and TC2</b>                                     |                            | 100mA                                                                                     |
| <b>Operating temperature and Operating humidity</b>                                         |                            | -10 °C / + 55 °C with warm dry air<br>-10 °C / + 40 °C with max. + 93% RH (not condensed) |
| <b>Type of power supply unit</b>                                                            |                            | TYPE A in compliance with EN 50131-6                                                      |
| <b>Environmental class</b>                                                                  |                            | II according to EN50131-1                                                                 |



"Power supply unit technical specifications" page 7

## TERMINAL BLOCK M1-M2-M3-M4-M5-M6

|                             |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| <b>Earth</b>                | Earth connection terminal                                                    |
| <b>Data bus IN</b>          |                                                                              |
| <b>V+</b>                   | 485 communication BUS power supply input positive                            |
| <b>V-</b>                   | 485 communication BUS power supply input negative                            |
| <b>A</b>                    | RS485 data BUS for connection to the control panel (IN) - A                  |
| <b>B</b>                    | RS485 data BUS for connection to the control panel (IN) - B                  |
| <b>Data bus OUT</b>         |                                                                              |
| <b>V+</b>                   | Power supply positive output. 485 communication bus. Limited to 1.5A         |
| <b>V-</b>                   | Power supply negative - output reference. 485 communication BUS power supply |
| <b>A</b>                    | RS485 data BUS for connection to other devices (OUT) - A                     |
| <b>B</b>                    | RS485 data BUS for connection to other devices (OUT) - B                     |
| <b>Outputs power supply</b> |                                                                              |
| <b>V+AUX1</b>               | Auxiliary 1 power supply output positive. Limited to 1.5A                    |
| <b>V-</b>                   | Auxiliary 1 power supply output negative                                     |
| <b>V+AUX2</b>               | Auxiliary 2 power supply output positive. Limited to 1.5A                    |
| <b>V-</b>                   | Auxiliary 2 power supply output negative                                     |
| <b>24H</b>                  | Tamper contact input                                                         |

## Outputs

- O1 Open Collector Output 1.** Programmed as module Anti-Sabotage by default. The output is active when module sabotage occurs.
- O2 Open Collector Output 2.** Programmed as module Low Battery Anomaly by default. The output is active when the programmed time has elapsed since the moment at which the battery was no longer detected or the does not respect the values indicated in the technical specifications.
- O3 Open Collector Output O3.** Programmed as module No 230 V Mains Anomaly by default. The output is active when the programmed time has elapsed since the moment at which the network was no longer detected.
- O4 Open Collector Output O4.** Programmed by default to indicate the fault of the power supply unit or of the power supply outputs. The output is active when there is a fault in the power supply unit or on the power supply outputs V+bus, VAUX1 or VAUX2

## ADDRESSING

The device address must be unique and can only be programmed using DIP switches.

| No. | DIP1 | DIP2 | DIP3 | DIP4 | DIP5 | DIP6     |
|-----|------|------|------|------|------|----------|
| 1   | OFF  | OFF  | OFF  |      |      |          |
| 2   | ON   | OFF  | OFF  |      |      |          |
| 3   | OFF  | ON   | OFF  |      |      |          |
| 4   | ON   | ON   | OFF  |      |      |          |
| 5   | OFF  | OFF  | ON   |      |      | not used |
| 6   | ON   | OFF  | ON   |      |      |          |
| 7   | OFF  | ON   | ON   |      |      |          |
| 8   | ON   | ON   | ON   |      |      |          |

## SETTING THE SPEED OF THE BOARD ON THE BUS

| BAUD    | DIP7 | DIP8 |
|---------|------|------|
| 9600    | OFF  | OFF  |
| 38400 * | ON   | OFF  |
| 57600   | OFF  | ON   |
| 115200  | ON   | ON   |

\* The standard speed of the bus for Vedo control panels is 38400 baud.

## LED MEANINGS

- DL1 Flashing slowly:** no data transfer over bus at the speed set using the DIP switch.  
**Flashing quickly:** data transfer over bus in progress.
- DL2 Off:** the peripheral is communicating correctly.  
**Very slow flashing:** (approx. 3 seconds) no data package on the BUS.
- DL3 On:** indicates that one of the Open Collector outputs is under protection due to a short circuit.

## POWER SUPPLY UNIT CONNECTOR

- CN1** External 230 V - 50 Hz power supply unit connector
- CN2** Battery connector

## CONFIGURATION JUMPERS

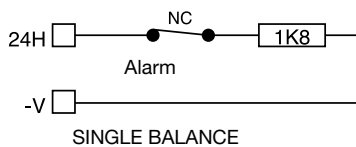
- JP1** RS485 output termination\*
- JP2** RS485 input termination\*

\* Always insert an end-of-line resistor between A and B of the 485 connection (using the relevant jumpers) to the two ends of the main bus line.

## ANTI-TAMPER CONNECTION

The **24H** terminal needs the Tamper contact to be connected in single balanced configuration.

A resistance of **1.8 KΩ**, in series with the contact, is required.



## CONNECTING V- REFERENCE TERMINAL

The incoming RS485 bus (bus IN) is electrically isolated from the rest of the board. As a result, the V- input terminal must only be connected to the bus running towards the control panel.



Do not connect the V- terminal for the incoming bus to other V-terminals present, and do not use it as a reference for outgoing power supply voltage values. This could damage the devices used, or cause them to malfunction.

## EARTH CONNECTION



For a compliant installation, connect the earth terminal to the system earth, passing through the power supply earth connection using the yellow/green cable supplied with the device enclosures.



In order to guarantee system certification, the power supply unit must be housed in boxes protected by anti-tamper microswitches or placed in the control panel enclosure. The 24h input must be connected to a balanced line and connected to an input line of the Vedo System.

## VEDOISO: ISOLATOR ON BUS

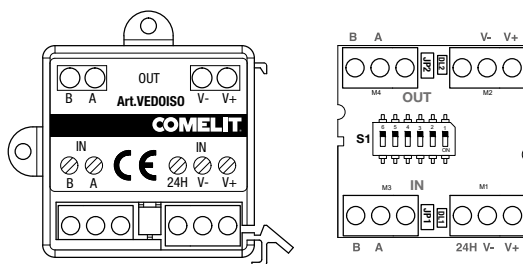
Isolator module on bus for Vedo series control panels, offering protection from faults and sabotage.

## MAIN FEATURES

Device that can be used to isolate the system to prevent any faults or sabotage events which occur downline from affecting the entire system. Equipped with a dual connection to the Vedo system 485 BUS:

- the IN port (input)
- the OUT port (output)

The section of the system that you want to isolate from the rest must be connected to the OUT port.



## TECHNICAL SPECIFICATIONS

|                                              |                                                                                           |
|----------------------------------------------|-------------------------------------------------------------------------------------------|
| Name of manufacturer / supplier              | Comelit Group S.p.A.                                                                      |
| Dimensions (w x h x d)                       | 56 x 53 x 19 mm                                                                           |
| Weight (without box)                         | 26 g                                                                                      |
| Consumption (min./max.)                      | 40 mA                                                                                     |
| Operating voltage                            | 10 V <sub>DC</sub> to 15 V <sub>DC</sub>                                                  |
| Operating temperature and Operating humidity | -10 °C / + 55 °C with warm dry air<br>-10 °C / + 40 °C with max. + 93% RH (not condensed) |

|                               |                                  |
|-------------------------------|----------------------------------|
| <b>Certified safety grade</b> | 2 in compliance with EN 50131-1* |
| <b>Device Type</b>            | B in compliance with EN 50131-3  |
| <b>Environmental class</b>    | II in compliance with EN 50131-1 |

\* Observing any indications for configuration and installation

 The product complies with standards EN 50131-1, EN 50131-3

## TERMINAL BLOCK

| IN         |                                                                                                                                                                                      |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>B</b>   | RS485 data bus for connection to Input B of the control panel serial line                                                                                                            |
| <b>A</b>   | RS485 data bus for connection to Input A of the control panel serial line                                                                                                            |
| <b>24H</b> | Tamper contact input                                                                                                                                                                 |
| <b>V-</b>  | Negative power supply input                                                                                                                                                          |
| <b>V+</b>  | Positive power supply input                                                                                                                                                          |
| OUT        |                                                                                                                                                                                      |
| <b>B</b>   | RS485 data bus, detects operating anomalies around the output branch and intervenes by isolating the faulty or sabotaged branch. Terminal B for peripheral input connection via bus. |
| <b>A</b>   | RS485 data bus, detects operating anomalies around the output branch and intervenes by isolating the faulty or sabotaged branch. Terminal A for peripheral input connection via bus. |
| <b>V-</b>  | Power supply negative output                                                                                                                                                         |
| <b>V+</b>  | Power supply positive output                                                                                                                                                         |

In the event of V+ V- power supply shortage, the auto-reset fuse intervenes. For the reset to take place correctly, the power supply must be cut off for 1 minute.

## ADDRESSING

The device address must be unique and can only be programmed using DIP switches.

| No. | DIP1 | DIP2 | DIP3 | DIP4 |
|-----|------|------|------|------|
| 1   | OFF  | OFF  | OFF  | OFF  |
| 2   | ON   | OFF  | OFF  | OFF  |
| 3   | OFF  | ON   | OFF  | OFF  |
| 4   | ON   | ON   | OFF  | OFF  |
| 5   | OFF  | OFF  | ON   | OFF  |
| 6   | ON   | OFF  | ON   | OFF  |
| 7   | OFF  | ON   | ON   | OFF  |
| 8   | ON   | ON   | ON   | OFF  |
| 9   | OFF  | OFF  | OFF  | ON   |
| 10  | ON   | OFF  | OFF  | ON   |
| 11  | OFF  | ON   | OFF  | ON   |
| 12  | ON   | ON   | OFF  | ON   |
| 13  | OFF  | OFF  | ON   | ON   |
| 14  | ON   | OFF  | ON   | ON   |
| 15  | OFF  | ON   | ON   | ON   |
| 16  | ON   | ON   | ON   | ON   |

## SETTING SPEED ON THE BUS

| BAUD    | DIP5 | DIP6 |
|---------|------|------|
| 9600    | OFF  | OFF  |
| 38400 * | OFF  | ON   |
| 57600   | ON   | OFF  |
| 115200  | ON   | ON   |

\* The standard speed of the bus for Vedo control panels is 38400 baud.

## CONFIGURATION JUMPERS

 To access DIP switch S1 and jumpers JP1 and JP2, you must remove the plastic casing at the top.

**JP1** If activated, enables 485 bus input terminal resistor\*

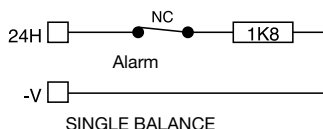
**JP2** If activated, enables 485 bus output terminal resistor\*

## LED MEANINGS

- DL1** *Flashing slowly*: no data transfer over bus at the speed set using the DIP switch.  
*Flashing quickly*: data transfer over bus in progress.
- DL2** *Off*: the peripheral is communicating correctly.  
*Very slow flashing*: (approx. 3 seconds) no data package on the BUS.

## TAMPER CONTACT CONNECTION

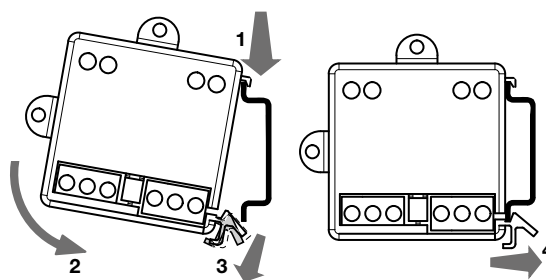
The **24H** terminal needs the Tamper contact to be connected in single balanced configuration. A resistance of **1.8 K $\Omega$** , in series with the contact, is required.



SINGLE BALANCE

 To guarantee system certification, the isolator must be positioned in boxes protected by an anti-opening switch, or in the control panel housing. The 24h input must be connected to a balanced line.

## INSTALLATION



The plastic housing allows flush mounting in domestic series boxes or on DIN rails.

## Outputs: sounder connection examples

The control panel is equipped with a relay capable of supporting 3A at 24 V  $\pm$ , with potential-free switching, which is assigned by default to the control of an alarm sounder. This relay can be used to control a self-powered sounder and a standard sounder. Switching is accessible via the terminals COM (common), NC (switching closed to common in standby) and NO (switching open in standby) of terminal block M3-M4.

A positive dedicated to charging the battery of a self-powered unit is available on terminal V+SIR of terminal block M4. This positive is limited by a 0.75A resettable fuse.

 In order to guarantee compliance with standards EN 50131-1 and EN 50131-3, a sounder sabotage zone must be provided.

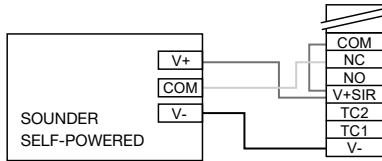


It is recommended to use a shielded cable for the connections, with one end of the shield connected to V- and the other left free.

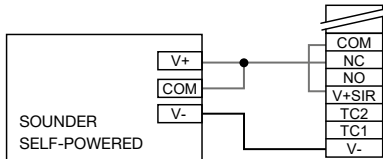
The 2-wire connection is recommended if using sounders that require a current higher than 0.75 A in alarm mode

## CONNECTING A SELF-POWERED SOUNDER WITH 3 OR 2 WIRES

With 3-wire connection, the control panel passes only one block positive through the relay associated with the alarm; the sounder power supply is connected separately to two terminals on the control panel (V+SIR and V-). In an alarm status, the block positive is removed and the sounder is activated, being able to use its backup battery and the system battery.

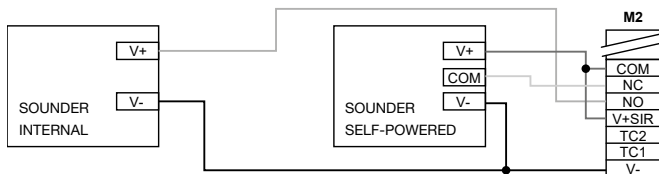


With 2-wire connection, the control panel passes a block positive and recharges through the relay associated with the alarm. The sounder negative is connected to the control panel V-. In an alarm status, this positive is removed and the sounder is activated under its own power.

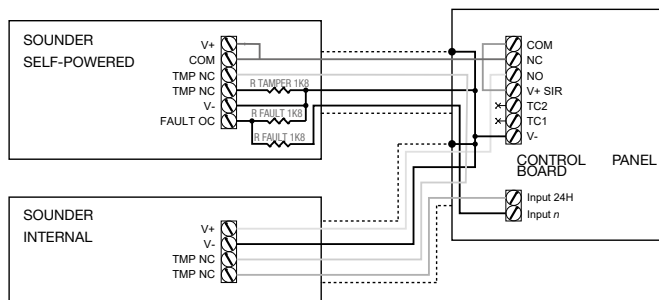


## CONNECTING A NON-SELF-POWERED INDOOR SOUNDER

It is sometimes necessary to connect an additional, non-self-powered, indoor sounder as backup for the outdoor sounder. Using two-wire connection for the outdoor self-powered sounder simplifies the wiring, as shown in the circuit diagram below.



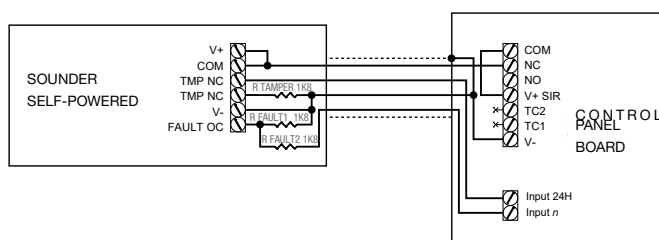
## 2-WIRE CONNECTION OF INDOOR SOUNDER AND SELF-POWERED SOUNDER WITH SOUNDER FAULT ZONE AND SOUNDER SABOTAGE ZONE



Input 24H: Sounder sabotage zone in single balance.

Input n: Sounder fault zone in double balance.

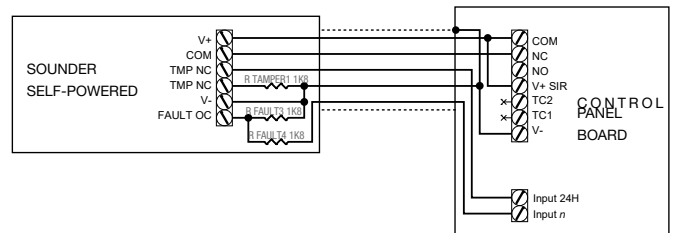
## 2-WIRE CONNECTION OF SELF-POWERED SOUNDER WITH SOUNDER FAULT ZONE AND SOUNDER SABOTAGE ZONE



Input 24H: Sounder sabotage zone in single balance.

Input n: Sounder fault zone in double balance.

## 3-WIRE CONNECTION OF SELF-POWERED SOUNDER WITH SOUNDER FAULT ZONE AND SOUNDER SABOTAGE ZONE



Input 24H: Sounder sabotage zone in single balance.

Input n: Sounder fault zone in double balance.

## Example of connection to outputs TC1 and TC2

Terminal block M5 has two generic outputs, TC1 and TC2. These outputs can be configured as open collectors for earth or for positive.

### Output configured as OC.

If the output is configured as an open collector (OC), in standby the output will be fluctuating (=no voltage) but in active status it will close terminal TC to V-.

### Output configured as TC.

If the output is configured as a TC, in standby the output will be fluctuating (=no voltage) but in active status it will close terminal TC to positive.

This type of behaviour can be figured with the jumpers of control panel boards PCBVEDO10, PCBVEDO34, PCBVEDO68, PCBVEDO200, as follows:

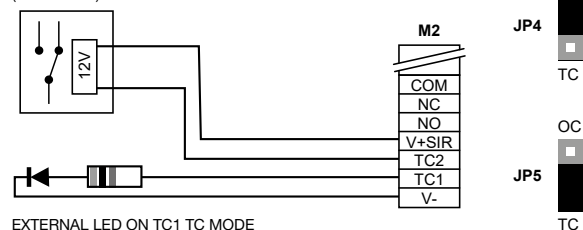
| Output TC1 | JP5 on OC                          | JP5 on TC                                   |
|------------|------------------------------------|---------------------------------------------|
| ON         | Output connects terminal to earth. | Output assumes value of approximately 13 V. |
| OFF        | The output has a high impedance    | The output has a high impedance             |

| Output TC2 | JP4 on OC                          | JP4 on TC                                   |
|------------|------------------------------------|---------------------------------------------|
| ON         | Output connects terminal to earth. | Output assumes value of approximately 13 V. |
| OFF        | The output has a high impedance    | The output has a high impedance             |

For the connection of LEDs or small relays, refer to the diagram below.

EXTERNAL RELAY ON TC2 OC MODE  
(JP4 ON OC)



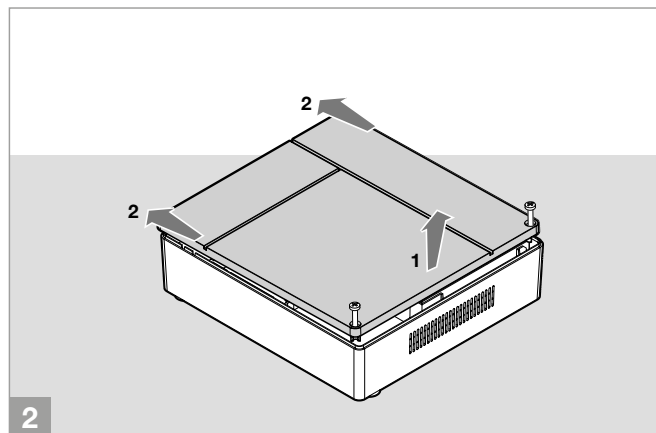
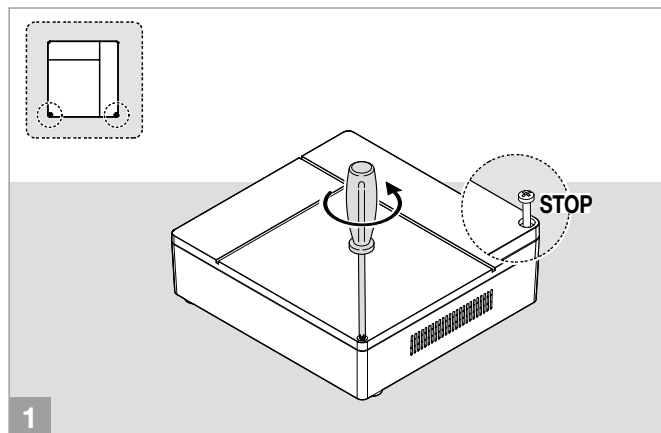
EXTERNAL LED ON TC1 TC MODE  
(JP5 ON TC)



# Mounting instructions

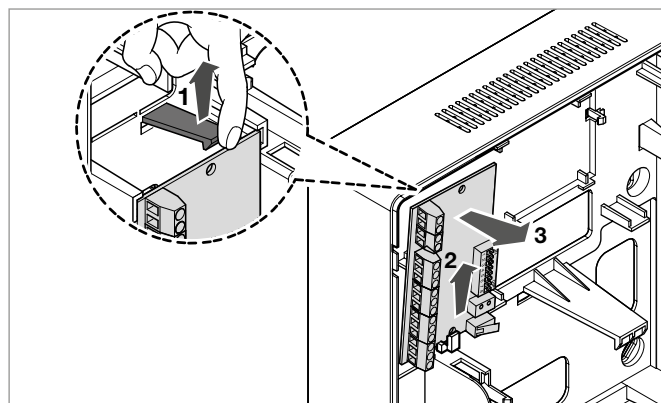
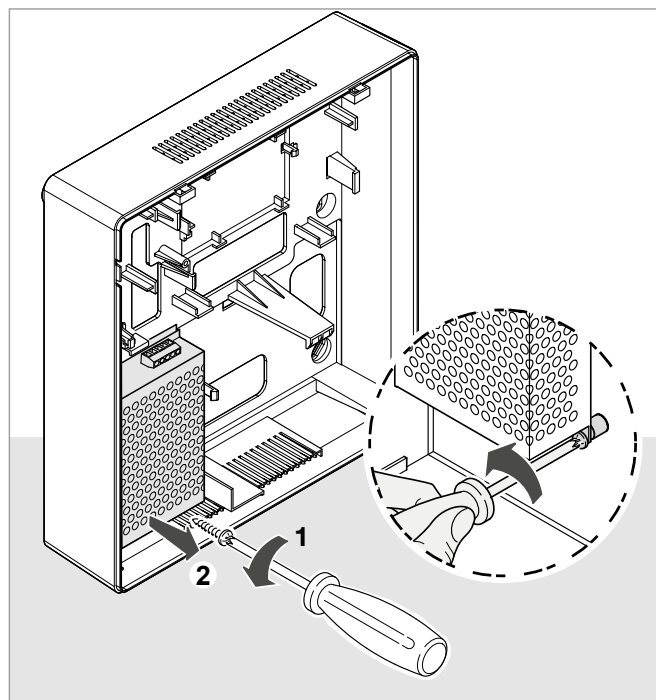
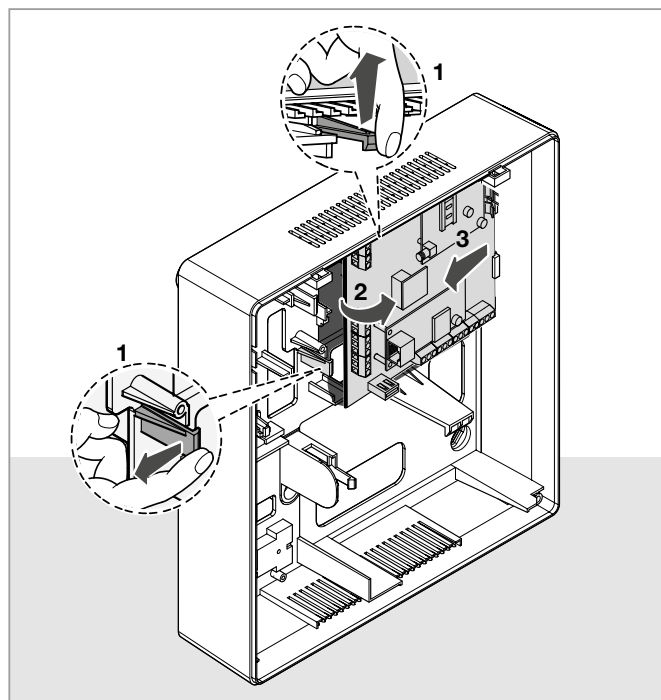
## BOXSTANDARD

### OPENING THE HOUSING



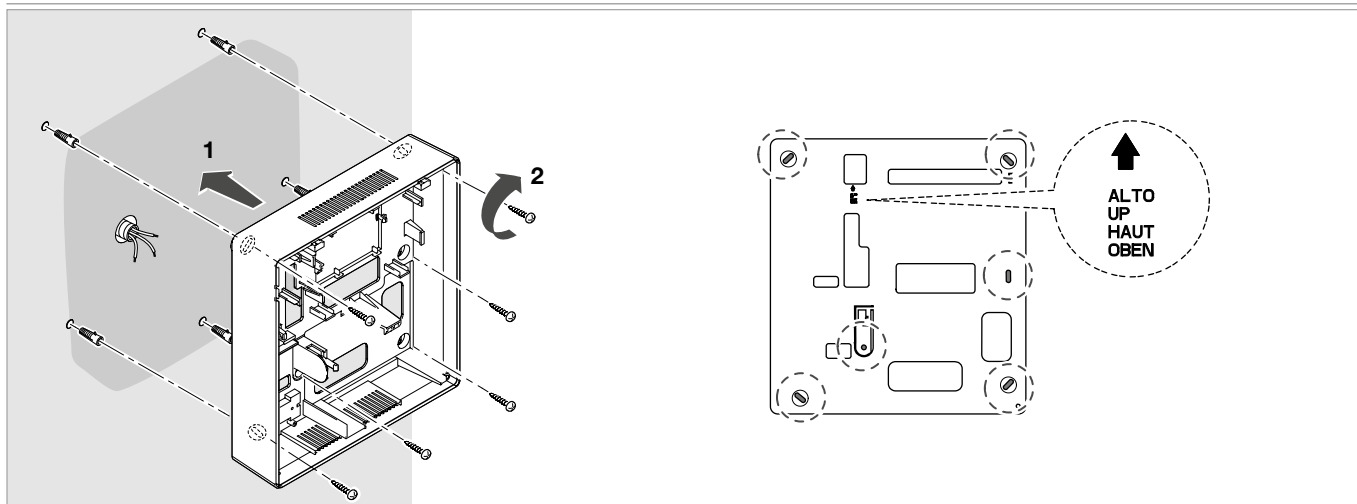
### PREPARATION

If the control panel is already assembled, you **will have to remove** the PCBs and the power supply unit from the housing, so as not to risk damaging them!

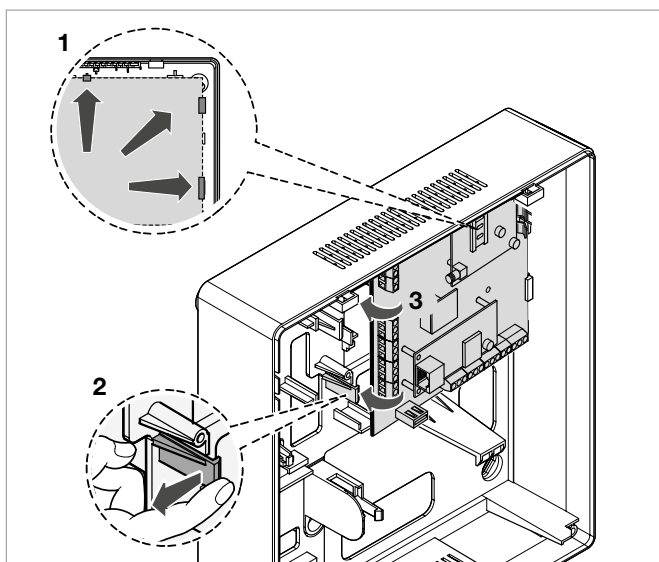


## WALL MOUNTING THE HOUSING

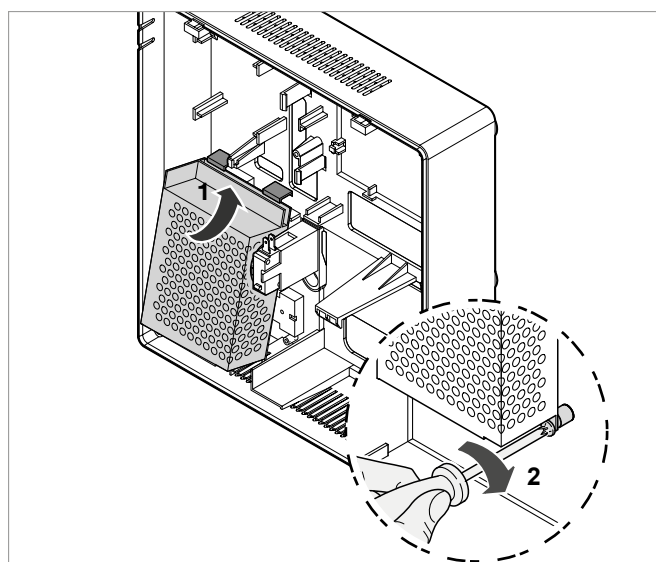
 The housing should be secured to the wall using screws and wall anchors.



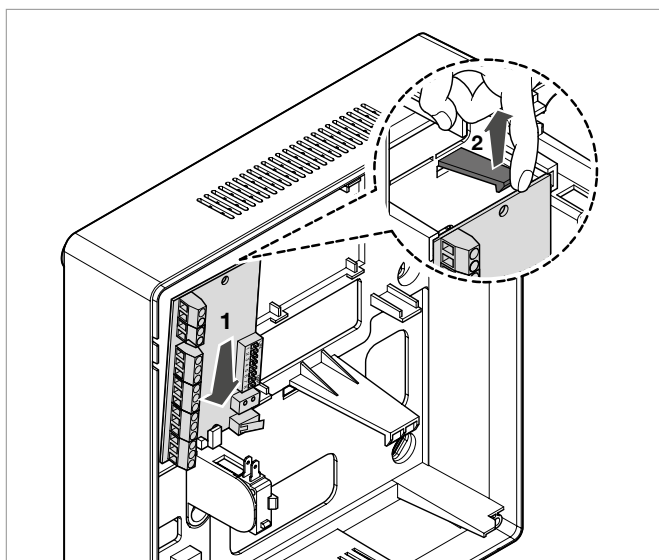
## FITTING CONTROL PANEL BOARD PCBVEDO10, PCBVEDO34, PCBVEDO68, PCBVEDO200, PCBPSU



## FITTING POWER SUPPLY UNIT PSU15/PSU25

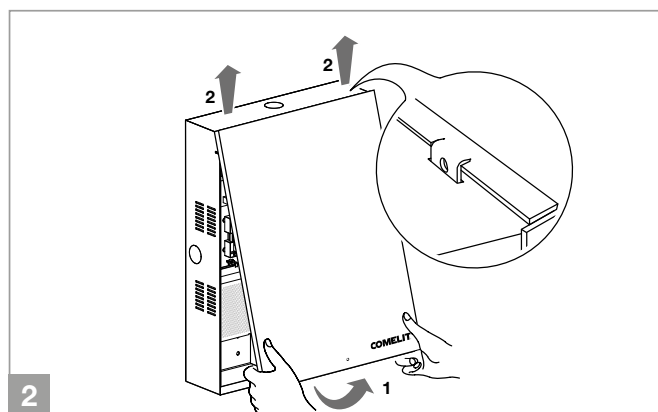
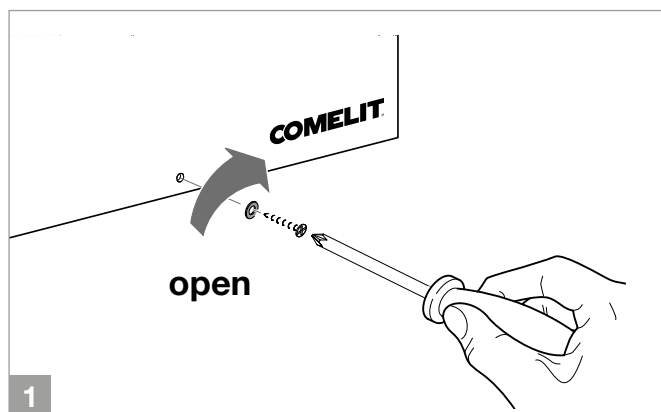


## FITTING EXPANSION VEDO8I80/VEDO8I80A AND RF10VEDO, RF32VEDO



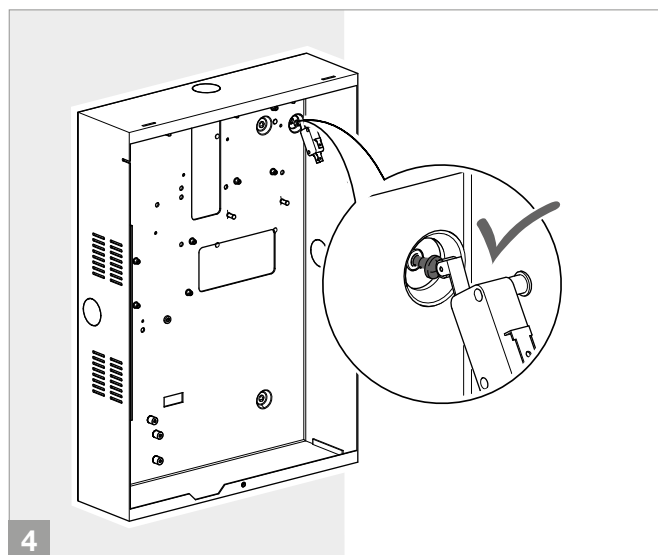
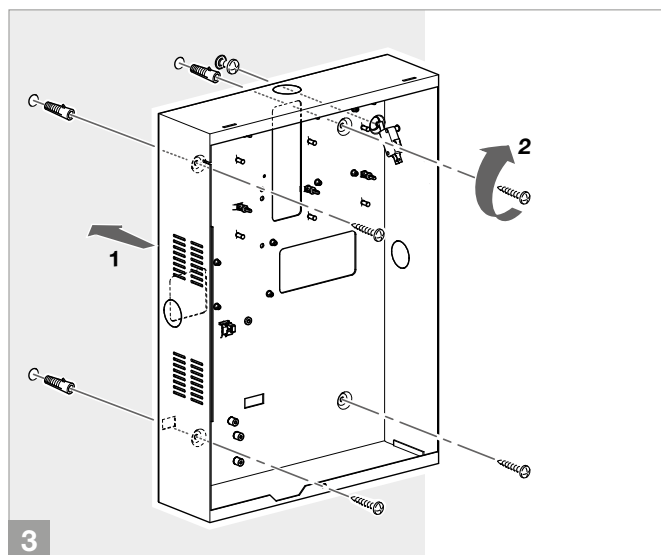
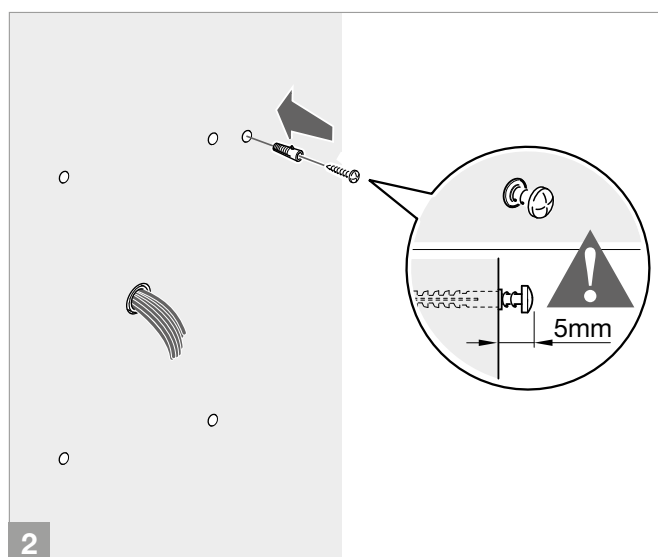
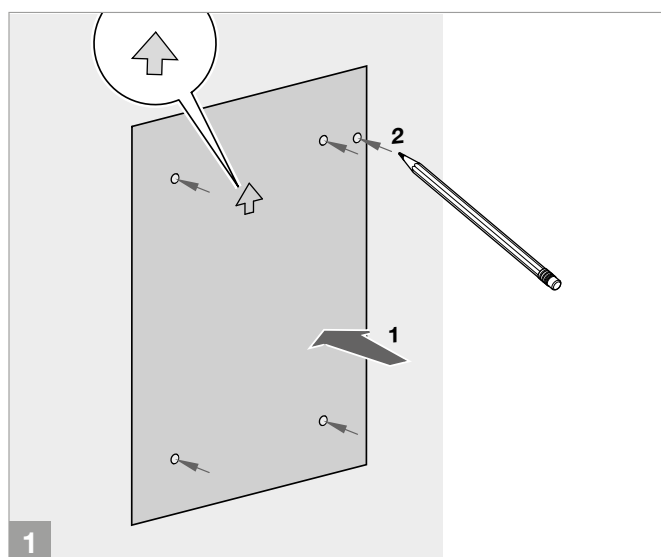
# BOXMETAL

## OPENING THE HOUSING

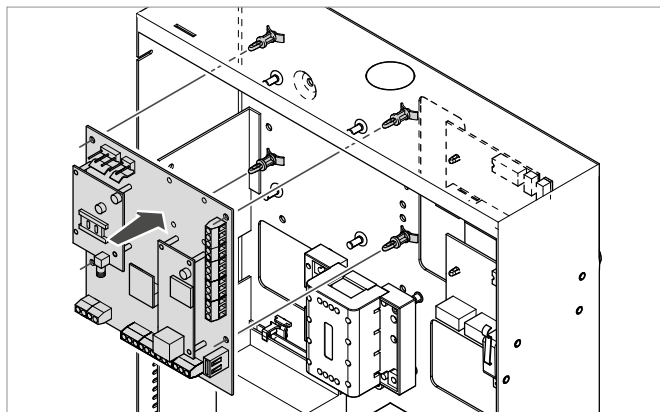


## WALL MOUNTING THE HOUSING

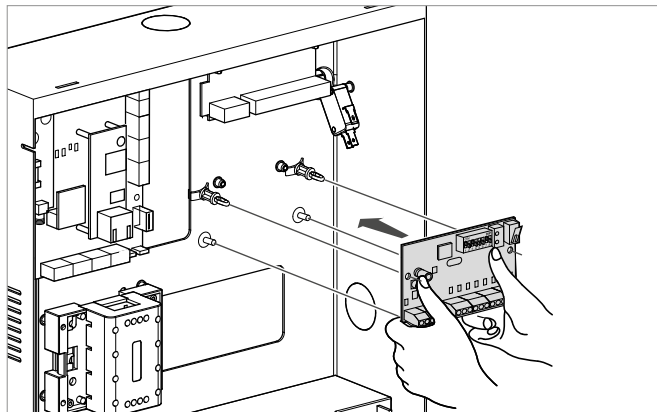
**!** The housing should be secured to the wall using screws and wall anchors.



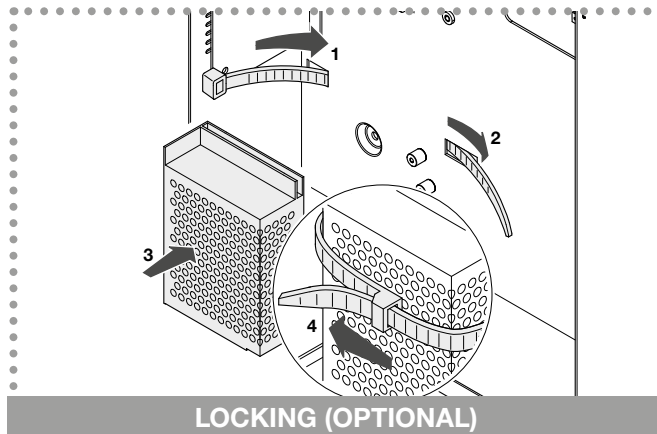
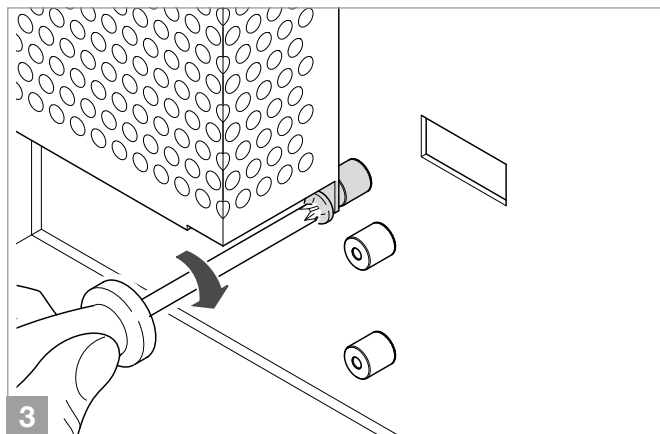
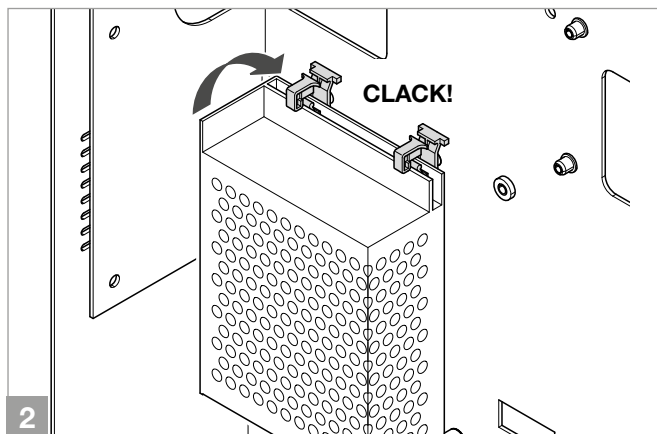
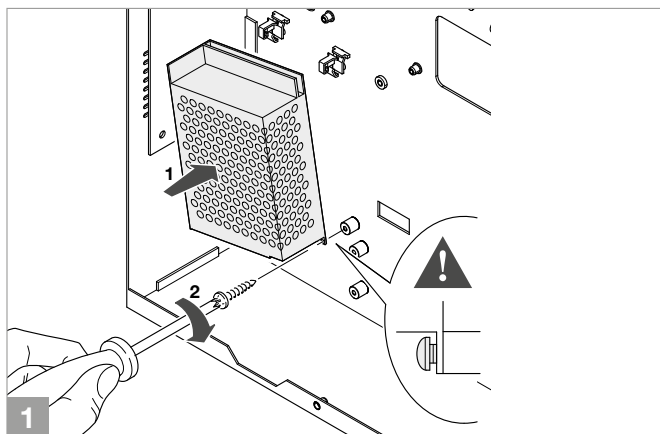
**FITTING CONTROL PANEL BOARD PCBVEDO10 /  
PCBVEDO34 / PCBVEDO68 / PCBVEDO200 AND PCBPSU**



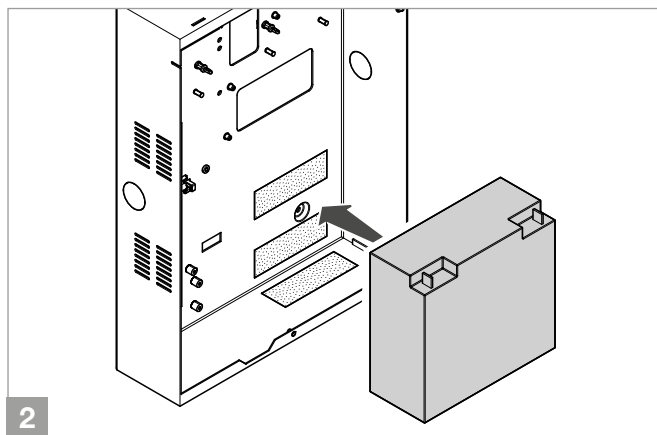
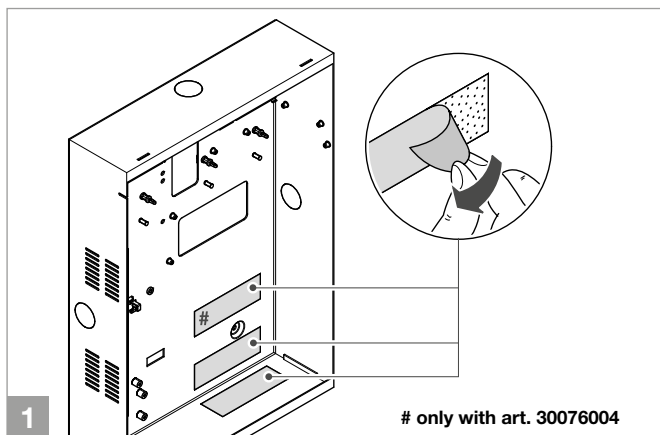
**FITTING EXPANSION DEVICE VEDO8I80/VEDO8I80A**



**FITTING POWER SUPPLY UNIT PSU15, PSU25, PSU50**

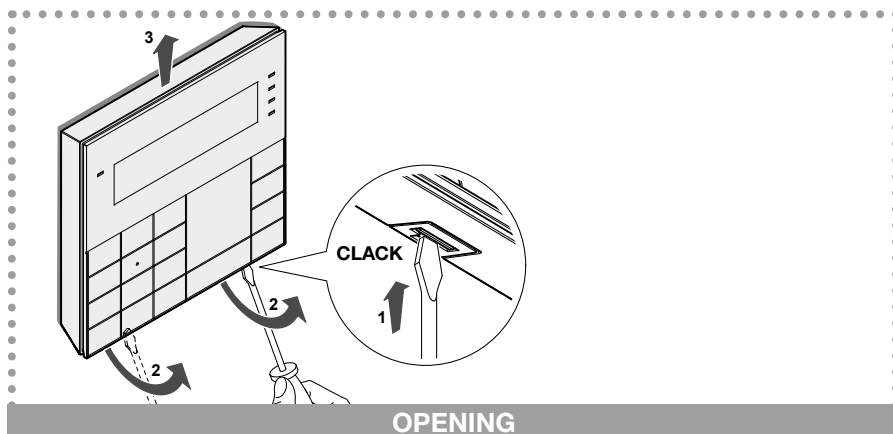
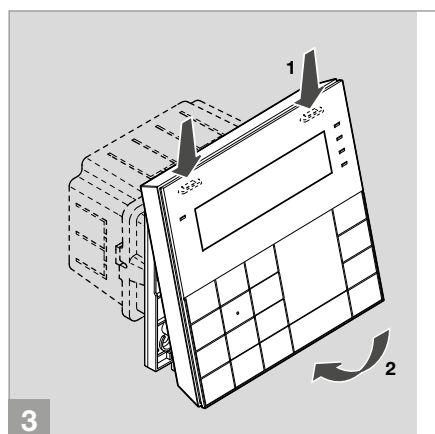
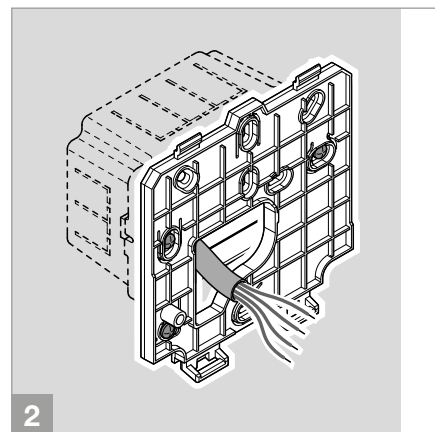
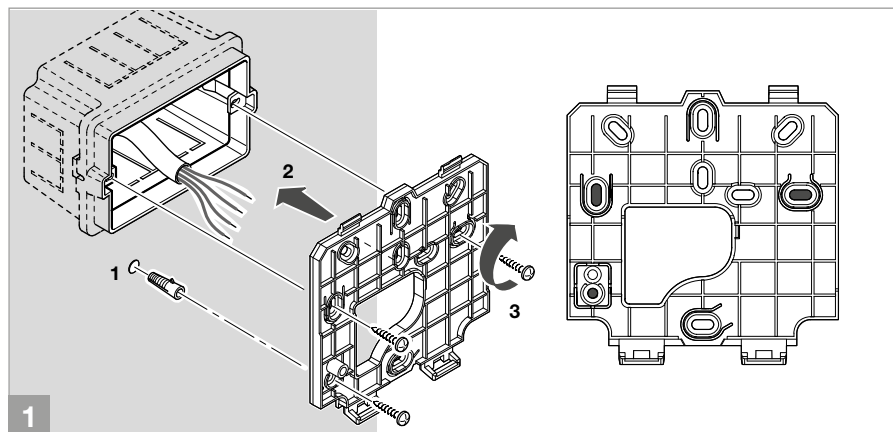


**FITTING BATTERY 30076003 / 30076004**

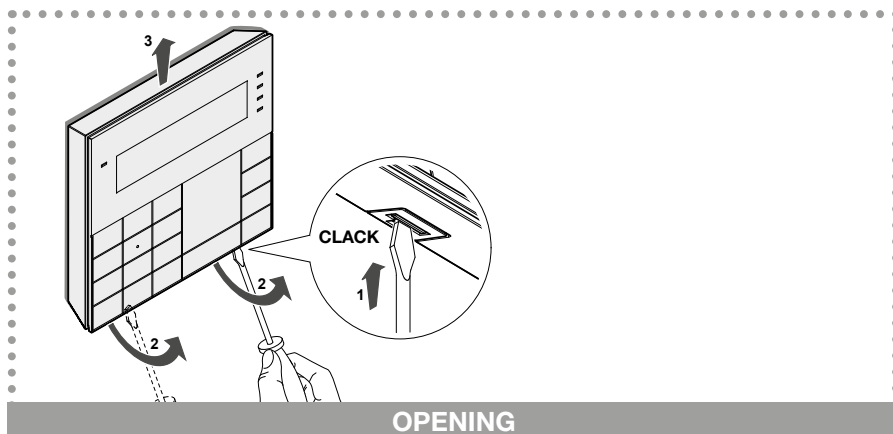
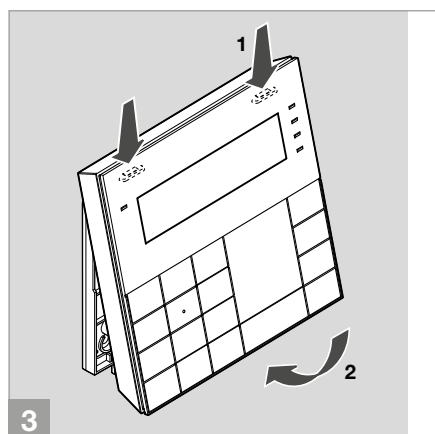
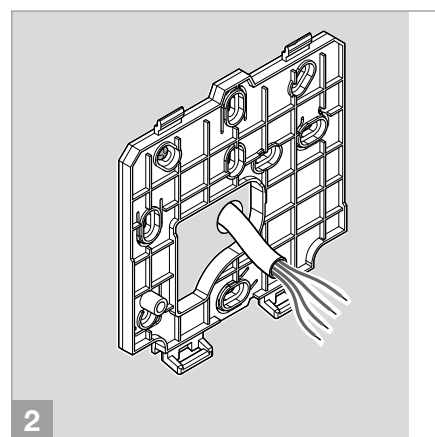
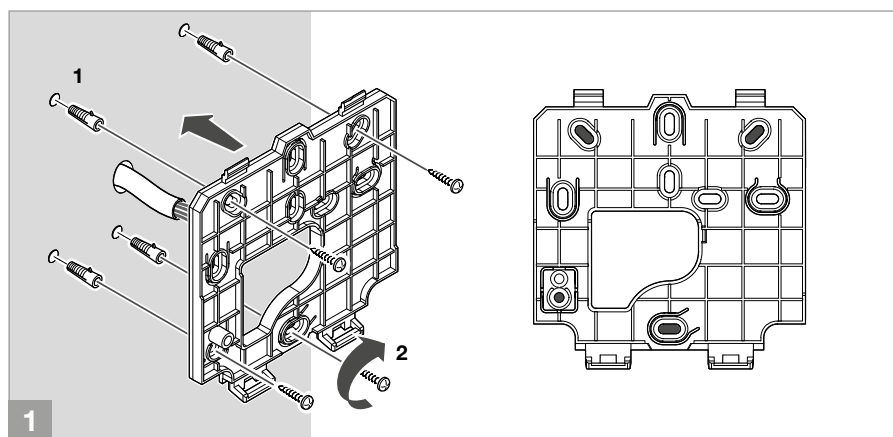


# VEDOKP, VEDOKP200, VEDOKPR, VEDOKPR200

## MOUNTING IN BOX 503

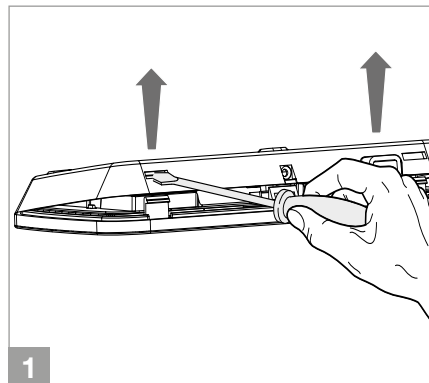


## SURFACE MOUNTING

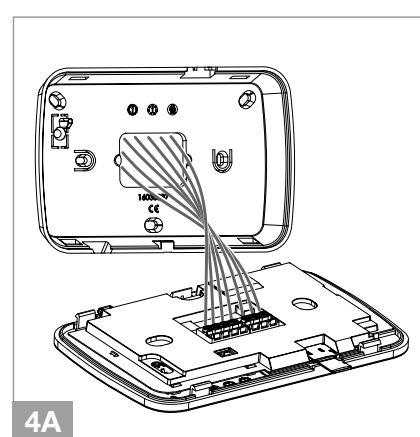
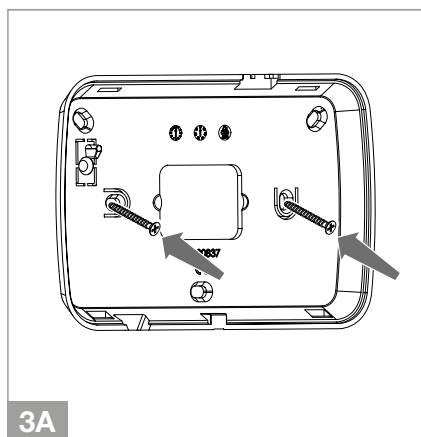
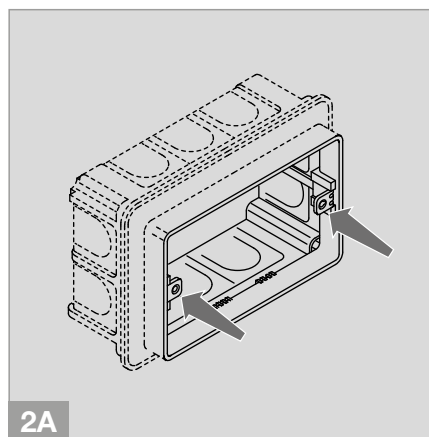


# VEDO5TPR, VEDO5TPRW

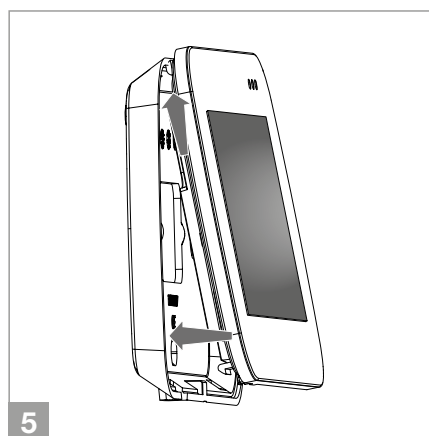
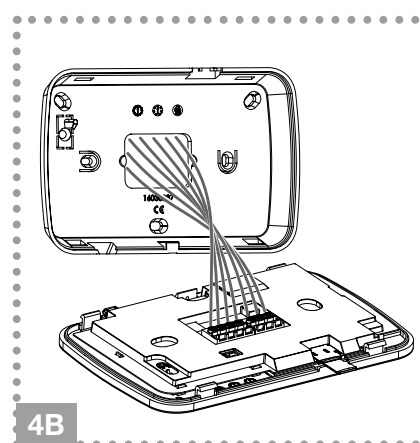
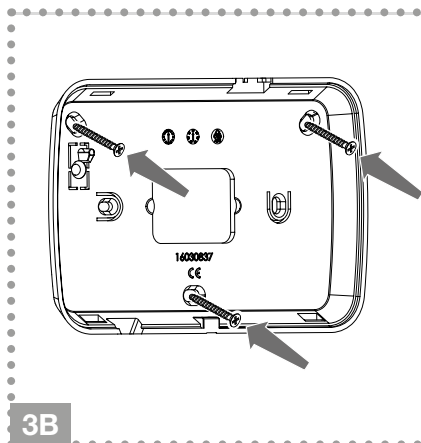
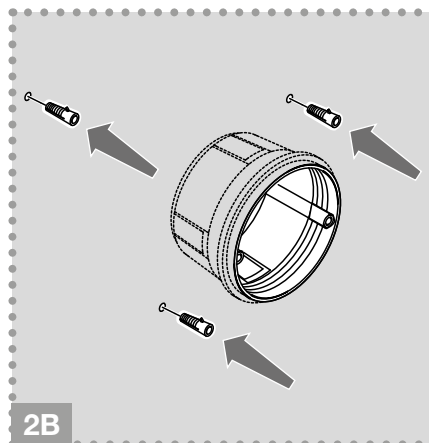
## PREPARING THE PLASTIC HOUSING



## MOUNTING IN BOX 503

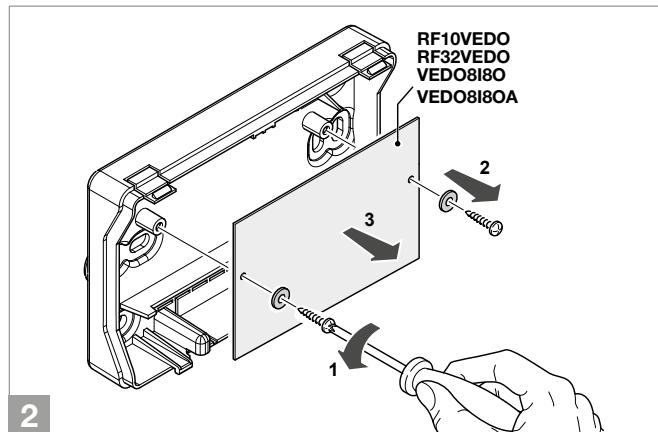
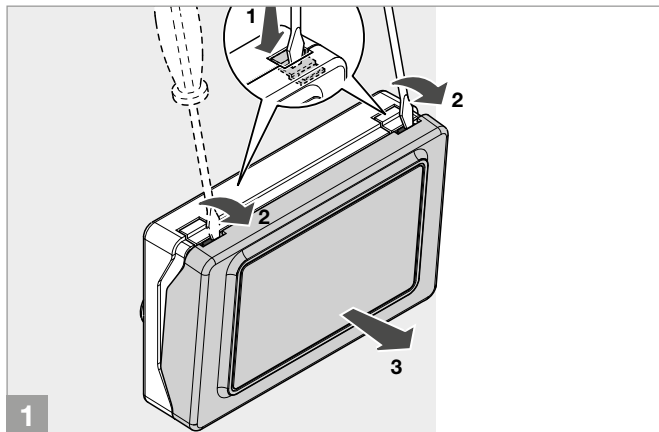


## MOUNTING IN A ROUND BOX

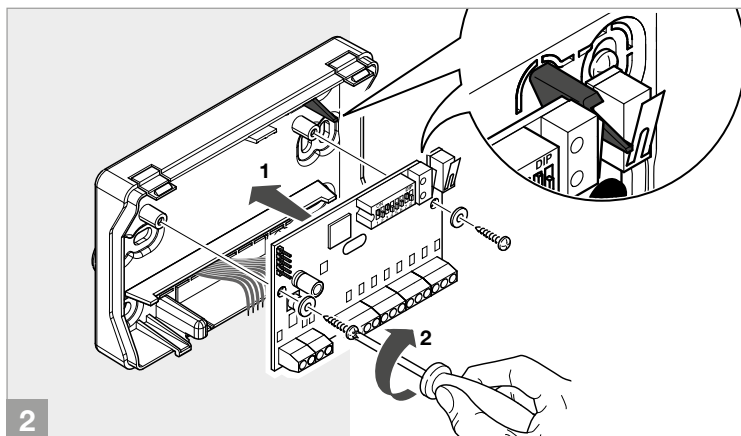
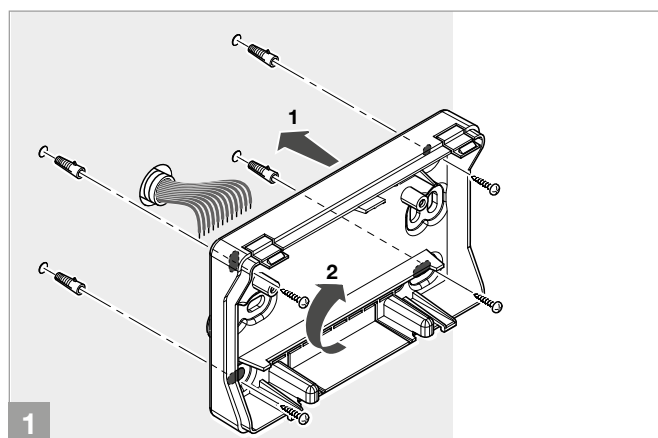
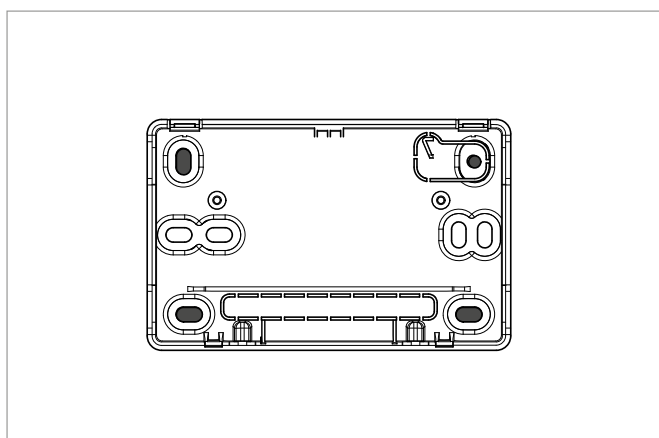


# RF10VEDO, RF32VEDO, VEDO08I80, VEDO08I80A

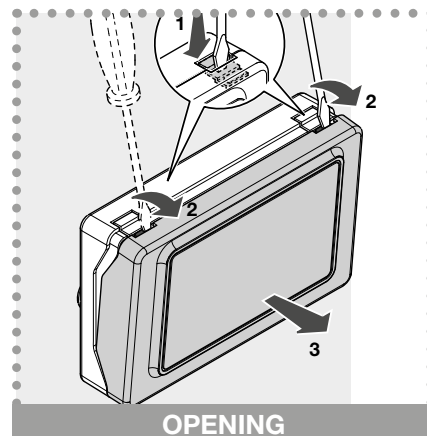
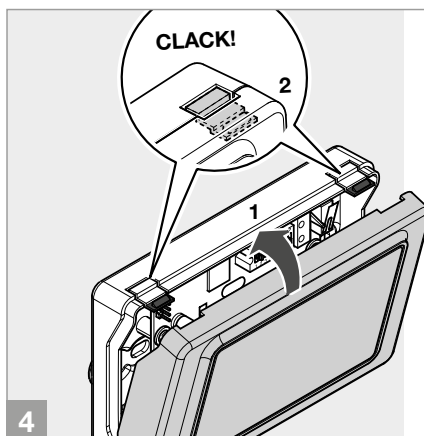
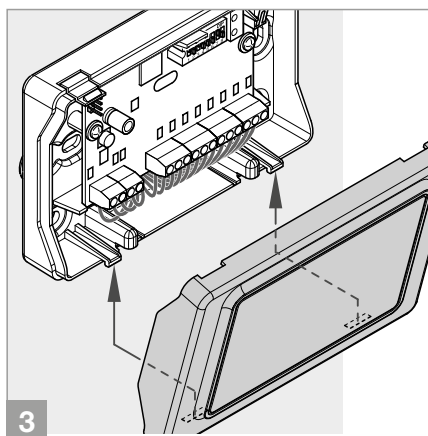
## PREPARING THE PLASTIC HOUSING



## FIXING THE PLASTIC HOUSING TO THE WALL



Make sure that the anti-tear tamper is held properly closed by the latch in the pre-marked anti-tear area of the housing.



# Notes on installation and programming

## What to do before powering up the system

### CONNECT THE ZONE INPUTS CORRECTLY

Make sure that all the inputs are connected correctly (closed to negative directly or via suitably sized resistors, according to the configuration of the individual inputs).

### CONNECT THE BUS MODULES

Make sure that all the modules are connected to each other correctly and to the alarm control panel.

Remember to make as straight a connection as possible (in and out type), and that any branches must be as short as possible.

Always remember to insert an end-of-line resistor between A and B of the 485 connection to the two ends of the main bus line.

### CLOSE ALL THE ANTI-TAMPER INPUTS

Close all the enclosures of the bus modules and of the control panel or, alternatively, bypass the anti-tamper microswitches.

**IMPORTANT: upon first start-up, only keypad number 1 will be considered active.**

### SWITCH ON THE POWER

It will now be possible to power up the system: power up the alarm control panel from its power supply unit and connect the battery. If everything is connected correctly, the green LED on the power supply unit will light up, confirming that the PSU is working

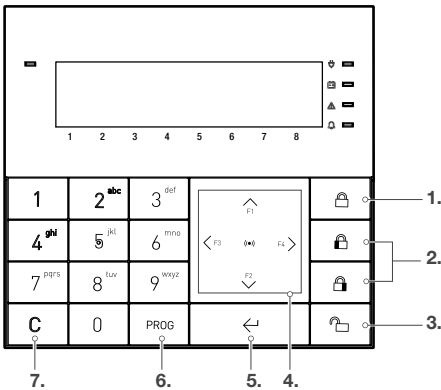
The control panel will start operating and will confirm this by causing LED DL3 to flash on the control panel board (1 second on/off).

## Default configuration

The control panel is factory-set to consider only keypad number 1 to be present. The control panel's alarm inputs, furthermore, are all enabled and configured as double balance.

## Introduction to programming from the keypad

### KEYPAD DESCRIPTION



1. Total arming key
2. Part arm 1, Part arm 2 keys
3. Disarm key
4. Navigation keys/function keys
5. Confirm key
6. Programming key
7. Cancel key

### DEFAULT CODES

Master Installer Code: 001961  
User 1 Code: 111111

### NAVIGATION MODE

It is possible to configure the system and enter or modify data using one of the system keypads.

Use the keys  $\wedge \vee < >$  to move about within the menu and the key  $\hookleftarrow$  to pass to the next level or to confirm entry of a new data item.

Press **C** to return to the previous menu

**Unauthenticated users can only use the delete key C or the numerical keys. If a key that is not usable is pressed, the display will show the message "FUNCTION NOT AVAILABLE".**

Keypad-authenticated users pressing the **C** key will be returned to the previous menu until the area status is displayed. If the value of the area status display time for that keypad is not unlimited, the next time the **C** key is pressed the keypad will return to standby mode, without giving any indication of the current area status (immediately hiding the information on the display).

### MODIFYING A NUMERICAL VALUE

To modify a numerical value, type in the desired value, following the format shown on the display, omitting non-numerical characters, but filling in all the numerical characters of the proposed format.

e.g. date DD-MM-YY must be entered as DDMMYY; 4 September 2023 will become 020923, without dashes but with a zero at the beginning to fill the tens digit for the days.

e.g. Setpoint 1.14 is entered as 114, without the decimal point.

### EDITING AN ALPHANUMERIC STRING

Once you have selected the string you wish to change (for example, the description of a zone) the first character available for editing will start to flash. At this point characters can be entered or replaced using the same technique as used in mobile telephones with a button keypad. Press the same key several times to change the suggested character in accordance with a set sequence. The table below shows the sequence of characters available for each key.

Press the **C** key when the first character is flashing to exit the string without saving any changes.

To move around within the string, use the right and left navigation keys.

Pressing the **C** key while inside the string deletes the character to the left of the flashing character.

When necessary, the new character will be entered to the left of the flashing character.

Press Confirm to save the changes.

The table below shows the keys and the sequence of characters associated with each

| Number key | Corresponding character sequence |
|------------|----------------------------------|
| 1          | . , : ; _ - # * ' @ / 1          |
| 2          | A B C a b c 2                    |
| 3          | D E F d e f 3                    |
| 4          | G H I g h i 4                    |
| 5          | J K L j k l 5                    |
| 6          | M N O m n o 6                    |
| 7          | P Q R S p q r s 7                |
| 8          | T U V t u v 8                    |
| 9          | W X Y Z w x y z 9                |
| 0          | (space) 0                        |

## **SETTING THE SERIAL NUMBER OF THE KEYPAD**

At first start-up, the keypad displays the message NOT CONNECTED. To enable the control panel to recognise keypad number 1 (the only keypad that can be recognised by the control panel by default), proceed as follows:

1. Press **PROG** and the confirm key simultaneously; the display will show the message 1 Config. Bus followed by two vertical arrows (up and down).
2. Press confirm.
3. Enter the serial number of the first keypad by typing the digits 001 in sequence, and then press confirm.
4. The display now shows the message SERIAL COM. Speed: with the suggestion "38400".
5. Press confirm.
  - » Keypad number one will now be taken in charge by the control panel and can be used for activating, deactivating and configuring the system.

## **FULL ARMING OF THE ALARM SYSTEM**

1. From the keypad, enter a valid user code (by default 111111) and then press .
2. The keypad asks for confirmation: "TOTAL ACTIVATION?"
3. Press the Confirm key to confirm
4. The keypad confirms the action with the message: "ACTIVATED"

## **PART ARMING OF THE ALARM SYSTEM / EXECUTION OF A SCENARIO**

1. From the keypad, enter a valid user code (default 111111) followed by either the Partial 1 key or the Partial 2 key.
2. If necessary, use the up and down navigation keys to select a different scenario from the proposed scenario, and then press Confirm.
3. The keypad confirms the action with the message: "ACTIVATED".

## **FULL DEACTIVATION OF THE ALARM SYSTEM**

1. From the keypad, enter a valid user code (by default 111111) and then press .
2. The keypad confirms the action with the message: "DEACTIVATED".
3. Deactivation will also deactivate any alarms in progress within a few seconds.

## **MUTING AN ALARM WITH THE SYSTEM DEACTIVATED**

1. From the keypad, enter a valid user code (default 111111).
2. Once the code has been recognised, press the **PROG** key until the message "DONE" appears on the screen.
3. This will mute the alarm.

## **ACCESSING PROGRAMMING MODE AS A USER**

1. From the keypad, enter a valid user code (default 111111)
2. Press **PROG**
3. The first line of the keypad display will show the message "System Mgmt." indicating that you can now modify the system options.

## **ACCESSING PROGRAMMING MODE AS AN INSTALLER (INSTALLER CODE AUTHORISATION)**

✓ The installer code must be authorised by the user, so the procedure is as follows:

1. Go into programming mode as a user (see previous paragraph).
2. Using the navigation keys (up and down), select the "COMMANDS" menu on the second line of the display, and press Confirm: the message "GENERATE COMMAND" will appear on the first line of the display.
3. Using the navigation keys (up and down), select "AUTH. INSTALLER?" on the second line, and press Confirm: the message "DONE" will appear on the display.
4. Press the **C** key until you have exited the menus completely (i.e. until the date and time are displayed on the keypad).
5. From the keypad, enter a valid installer code (default master code 001961).
6. Press **PROG**
7. The first and second lines of the display will show the messages "Main Menu" and "Parameter Mgmt." indicating that you can now display or modify the system options.
8. From this position, you can use the navigation keys to select either the "System Mgmt." menu, which corresponds to the user menu, or the "Parameter Prog." menu, which is reserved for the installer.
9. Press the Confirm key to enter the respective submenus.

## **CHANGE DATE AND TIME**

✓ To change the date and time from the keypad, you need to go into programming mode.

### **As installer:**

1. Go into programming mode as an installer (see relevant paragraph).
2. Using the navigation keys, select "System Mgmt.", then continue as a user.

### **As user:**

1. Go into programming mode as a user (see relevant paragraph).
2. Using the navigation keys (up and down), select the "Options" menu on the second line of the display, and press Confirm.
3. Using the navigation keys (up and down), select the "Change date/time" option on the second line, and press Confirm.
4. The first line will show DD-MM-YY (day, month and year) and the second line will display the date set on the control panel.
5. Enter the date using the number keys (e.g.: 1 September 2012 becomes 010912), then confirm.
6. The first line of the display now shows HH-MM (hours and minutes) and the second line shows the time set on the control panel.
7. Enter the time in the format displayed (e.g. 1.15 pm becomes 1315), then confirm.
8. This done, the display will show the message PARAMETER CHANGED.
9. Press the **C** key once to move up one level in the menu, or press **C** repeatedly until the date and time appear on the keypad.

## **ACQUIRING AN RFID KEY CODE FROM THE KEYPAD**

1. From the keypad, enter a valid installer code (default master code 001961).
2. Press **PROG**
3. The first and second lines of the display will show the messages "Main Menu" and "Parameter Prog." respectively, indicating that you can now modify the system options.
4. Press the Confirm key to enter the respective submenus.
5. Using the navigation keys (up and down) select "ProximityKeys" submenu. Press confirm.
6. The display will show the message "Key 1" and below it, the parameter that you can modify, namely "Description".
7. Using the navigation keys (left and right), select the number of the key you intend to acquire.
8. Press Confirm if you intend to change the description, then confirm to make the change or press **C** to leave the description as it is.
9. Using the navigation keys (up and down), select the "Acquire" submenu. Still using the navigation keys, select the type of peripheral from which you intend to acquire the key code and its bus address, then press Confirm again.
10. The display will show the message "Acq. Key: In progress..."
11. Bring the key close to the RFID reader: the message will change from "In progress..." to "Acquired".
12. Press Confirm: the display will show a description of the colour of the key's plastic housing
13. Press Confirm again to associate the key to the desired user.
14. Once you have finished making changes from the keypad, remember to transfer them to the PC by means of the Comelit alarm control panels configuration program.

## **ACQUIRING A RADIO SENSOR CODE FROM THE KEYPAD**

1. Insert the battery in the sensor to be learned and wait until the LED stops flashing. (Device reset: press and hold the ENROLL key for ten seconds; the device status LED will turn red and, when the button is released, the device flashes green three times. To start a new acquisition process, press the enroll key again.)
2. From the keypad, enter a valid installer code (default master code 001961).
3. Press **PROG**
4. The first and second lines of the display will show the messages "Main Menu" and "Parameter Prog." respectively, indicating that you can now modify the system options.
5. Press the Confirm key to enter the respective submenus.
6. Using the navigation keys (up and down), select "Radio Zones" submenu. Press confirm.
7. The display will show the message "Radio Zone 1" and below it, the parameter that you can modify, namely "Description".
8. Using the navigation keys (left and right), select the position in which you intend to acquire the sensor.

## ACQUISITION ON THE SYSTEM

- 9a. Using the navigation keys (up and down), select "Acquisition" and press Confirm. The display will show the message "Acq. Radio Zone: In progress..."
- 10a. Now press and release the tamper button on the sensor.
- 11a. If acquisition is successful, the display will show the type of sensor and the unique code number of the sensor.

## OFFLINE ACQUISITION VIA SERIAL NUMBER

- 9b. Using the navigation keys (up and down), select "Serial number" and press Confirm.
- 10b. Enter the serial number of the sensor and confirm.
- 11b. Set the zone status to "active" and confirm.
- 12b. Activate the function "Pair codes" from the menu **Installer / System Mgmt. / Syst. Analysis menu**
- 13b. Complete system configuration: press and release the enroll button for the sensor to start transmitting data and pair the device with the radio zone.

If acquisition fails because the sensor is already saved on the control panel, the display will show the message "Acq. failed Dev. Duplicated" In this case, it is preferable to acquire the parameters from a PC using the configuration software, in order to check the programmed sensors, the acquired codes and their parameters. This will make it easier to correct any configuration errors.

Once you have finished making changes from the keypad, remember to transfer them to the PC by means of the Comelit alarm control panels configuration program.

## ACQUIRING A RADIO CONTROL CODE FROM THE KEYPAD

- 1. Reset the radio control (only for radio controls acquired previously): Press and hold keys 1 and 4 until the red LED is steadily lit. While the red LED is lit, press key 4 once. The green LED confirms correct completion of a reset with three brief flashes.
- 2. From the keypad, enter a valid installer code (default master code 001961).
- 3. Press PROG
- 4. The first and second lines of the display will show the messages "Main Menu" and "Parameter Prog." respectively, indicating that you can now modify the system options.
- 5. Press the Confirm key to enter the respective submenus.
- 6. Using the navigation keys (up and down), select the "Radio Controls" submenu. Press the confirm key
- 7. The display will show the message "Radio Control 1" and below it, the parameter that you can modify, namely "Description".
- 8. Using the navigation keys (left and right) select the position in which you intend to acquire the radio control.

## ACQUISITION ON THE SYSTEM

- 9a. Using the navigation keys (up and down), select "Acquisition" and press Confirm. The display will show the message "Acq. Radio Tel.: In progress..."
- 10a. Press buttons 3 and 4 simultaneously until the radio control LEDs start flashing, then release the buttons.
- 11a. If acquisition is successful, the display will show the message "DEV. PENDANT" and the unique code number of the radio control.

## OFFLINE ACQUISITION VIA SERIAL NUMBER

- 9b. Using the navigation keys (up and down) select "user", then confirm.
- 10b. Select the desired user and press Confirm.
- 11b. Enable the user by selecting "Activate parameter" YES and confirm.
- 12b. Enter the radio control serial number (located on the back of the device) and confirm.
- 13b. Activate the function "Pair codes" from the menu **Installer / System Mgmt. / Syst. Analysis menu**
- 14b. Complete system configuration: link the radio control to the radio expansion device by pressing keys 3 and 4
- 12. Using the navigation keys (up and down), select "User" and press Confirm.
- 13. Use the navigation keys to choose the user with whom the radio control is to be associated and press Confirm.

Once you have finished making changes from the keypad, remember to transfer them to the PC by means of the Comelit alarm control panels configuration program.

## ACQUIRING A SOUNDER CODE FROM THE KEYPAD

Reset the sounder (only for sounders acquired previously):

- 1. press and hold the ENROLL key for 7 seconds; the green LED will flash rapidly three times, followed by one long red flash and one long green flash. To start a new acquisition process, press the enroll key again.
- 2. From the keypad, enter a valid installer code (default master code 001961).
- 3. Press PROG
- 4. The first and second lines of the display will show the messages "Main Menu" and "Parameter Prog." respectively, indicating that you can now modify the system options.
- 5. Press the Confirm key to enter the respective submenus.
- 6. Using the navigation keys (up and down) select the "Radio Outputs" submenu. Press confirm.
- 7. The display will show the message "Output 1" and below it, the parameter that you can modify, namely "Description"
- 8. Using the navigation keys (left and right) select the position in which you intend to acquire the sounder, change the description (if desired) and confirm.

## ACQUISITION ON THE SYSTEM

- 9a. Using the navigation keys (up and down), select "Acquisition" and press Confirm. The display will show the message "Acq. Sounder: In progress..."
- 10a. At this point press and hold the LEARN button for the sounder (or tamper) until the sounder light begins to flash to begin transmitting data and link the sounder to the radio zone.
- 11a. If acquisition is successful, the display will show the serial number of the sounder.

## OFFLINE ACQUISITION VIA SERIAL NUMBER

- 9b. Using the navigation keys (up and down), select "Output Serial" and press Confirm.
- 10b. Enter the serial number of the sounder and confirm.
- 11b. Use the navigation keys (up and down) to select "Generic Param."/ "Status" and set the status of the radio output to Active.
- 12b. Activate the function "Pair codes" from the menu **Installer / System Mgmt. / Syst. Analysis menu**
- 13b. Complete system configuration: press and release the ENROLL button for the sounder (or the tamper) to start transmitting data and pair the sensor with the radio zone.

Once you have finished making changes from the keypad, remember to transfer them to the PC by means of the Comelit alarm control panels configuration program.

## EXITING PROGRAMMING MODE

- Press the **C** key until you have exited the menus completely (i.e. until the date and time are displayed on the keypad).

## RESTORING FACTORY SETTINGS

You can reset the control panel configuration at two levels: level one, defined as Partial, and level two, defined as Total.

### TOTAL RESET

A total reset reconfigures the control panel board to its default settings, in such a way that it can be re-used as though newly unpacked from its packaging. Total resets can be performed only via the configuration software, provided you know both a user code and an installer code. It may be necessary to perform a partial reset to recover the necessary codes.

The total reset process is described in the procedures set down in the system configuration manual.

### PARTIAL RESET (CODE RECOVERY)

A partial reset is confined to recovering the control panel codes, thereby making it possible to restore a system from which all the necessary codes for use and management have been lost.

A partial reset can be performed in hardware mode only.

To perform a partial reset to recover the default master installer and user codes, proceed as follows:

- 1. Switch off all power to the control panel board
- 2. Insert a jumper on connector JP6
- 3. Power up the control panel
- 4. Wait until LED DL3 starts flashing at about 1 flash per second
- 5. Remove the jumper from JP6
- 6. The codes are now restored to their factory settings

## SETTING THE CONTROL PANEL TO SERVICE STATUS

This function allows the installer to work on the Vedo System with complete peace of mind, with the sounder, PSTN part, GSM part and email all "silenced".

The control panel is working and can be programmed (via Safe Manager) but does not generate any Alarm event.

1. From the keypad, enter a valid user code (default 111111).
2. Press **PROG**.
3. The first line of the display will show the message "System Mgmt." indicating that you can now modify the system options.
4. Using the navigation keys (up and down), select the "COMMANDS" menu on the second line of the display, and press Confirm: the message "GENERATE COMMAND" will appear on the first line of the display.
5. Using the navigation keys (up and down), select "AUTH. INSTALLER?" on the second line, and press Confirm: the message "DONE" will appear on the display.
6. Press the **C** key until you have exited the menus completely (i.e. until the date and time are displayed on the keypad).
7. From the keypad, enter a valid installer code (default master code 001961).
8. Press **PROG**
9. Open the control panel cover.
10. Insert jumper JP7.

» The control panel will remain in service while jumper JP7 remains inserted. The keypad display will show "SCHEDULED MAINTENANCE!" or "N" across all areas.

## EXITING SERVICE STATUS

1. From the keypad, enter a valid installer code (default Master code 001961).
2. Press **PROG**
3. Remove jumper JP7.
4. Close the control panel cover.
5. Press **C** repeatedly until you have exited the menus completely.

## Fast navigation of keypad menu (installer and user)

At whatever menu depth level you are, it is possible to use fast navigation by entering coordinates.

The coordinates are entered in pairs of lines, or columns, for each navigation depth level.

Each coordinate is confirmed by pressing **PROG**.

The end of coordinate entry is confirmed by pressing **↵**

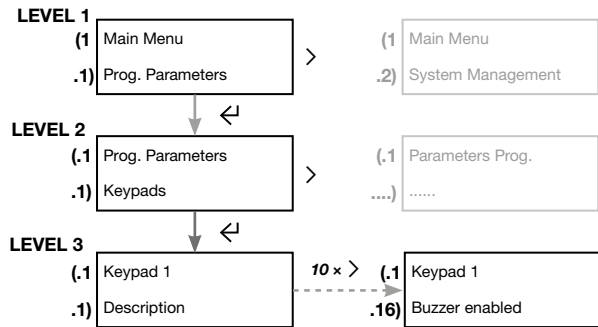
Fast navigation can be cancelled by pressing **C** until all the numbers entered have been deleted.

Any error in entering the coordinates is indicated with the message "FUNCTION NOT AVAILABLE". The same message is also displayed if a user does not possess the necessary authorisations for access to the navigation level requested.

Start entering the coordinates from the current level.

### EXAMPLE 1: "ENABLE BUZZER" ON KEYPAD 1

Traditional navigation with keys **^ v < > ↵**



## FAST NAVIGATION

1. Consult the table with the indices of the parameters\* and find the index of the desired function

| Indices    | Parameters |
|------------|------------|
| 1.1.1.x.16 | Buzzer on  |

LEVEL 3  
LEVEL 2  
LEVEL 1

where x= "device number" coordinate

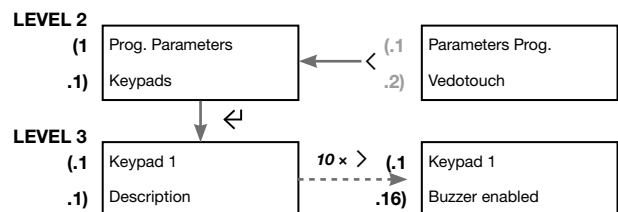
2. Enter the index as follows, pressing prog at "." and pressing the confirm button at the end of the sequence:

1 PROG 1 PROG 1 PROG 1 PROG 1 PROG 16 ↵

\* The following pages show only the indices of the parameters to be configured to obtain grade 2 certification according to EN50131-1.

### EXAMPLE 1: "ENABLE BUZZER" ON KEYPAD 1 FROM DEPTH LEVEL 2 PARAMETER PRG./VEDOTOUCH

Traditional navigation with keys **^ v < > ↵**



## FAST NAVIGATION

1. Consult the table with the indices of the parameters\* and find the index of the desired function, starting from the current depth level

| Indices      | Parameters |
|--------------|------------|
| 1.1(1.1.x.16 | Buzzer on  |

LEVEL 3  
LEVEL 2

2. Enter the index as follows, pressing PROG at "." and pressing the confirm button at the end of the sequence:

1 PROG 1 PROG 1 PROG 16 ↵

\* The following pages show only the indices of the parameters to be configured to obtain grade 2 certification according to EN50131-1.

# Configurations necessary to guarantee grade 2 certification according to EN 50131-1 (SP2-DP1)

This chapter provides indications on the configuration parameters which, if altered, could lower the safety level of the system, and the configurations necessary to guarantee I&HAS certification.

For further details on programming and configuration, consult the programming manual, which is available to download from the website [pro.comelitgroup.com](http://pro.comelitgroup.com)

## KEYPADS

**Vedo10** x: from 1 to 2 / **Vedo34** x: from 1 to 8 / **Vedo68** x: from 1 to 8 / **Vedo200** x: from 1 to 16

| Indices      | Parameters                           | Configurations necessary to guarantee Grade 2 certification |
|--------------|--------------------------------------|-------------------------------------------------------------|
| 1.1.1.1.x.2  | Controlled areas                     | At least one selected area                                  |
| 1.1.1.1.x.4  | Tamper areas                         | At least one selected area                                  |
| 1.1.1.1.x.5  | Technical areas                      | At least one selected area                                  |
| 1.1.1.1.x.16 | Buzzer on                            | active                                                      |
| 1.1.1.1.x.17 | Entrance Buzzer                      | active                                                      |
| 1.1.1.1.x.18 | Output buzzer                        | active                                                      |
| 1.1.1.1.x.19 | Alarm Buzzer                         | active                                                      |
| 1.1.1.1.x.22 | Pre-alert Buzzer                     | active                                                      |
| 1.1.1.1.x.24 | System status display time           | 0 (+30 seconds)                                             |
| 1.1.1.1.x.25 | Tamper cycles                        | Unlimited                                                   |
| 1.1.1.1.x.26 | Technical cycles                     | Unlimited                                                   |
| 1.1.1.1.x.27 | Unlimited System status display time | Deselected                                                  |
| 1.1.1.1.x.28 | Unlimited tamper cycles              | Selected                                                    |
| 1.1.1.1.x.29 | Unlimited technical cycles           | Selected                                                    |
| 1.1.1.1.x.33 | Quick activation                     | Deselected                                                  |
| 1.1.1.1.x.35 | Area status                          | Selected                                                    |
| 1.1.1.1.x.37 | Zones open                           | Selected                                                    |
| 1.1.1.1.x.40 | Send email                           | Selected                                                    |
| 1.1.1.1.x.41 | Send Digital Com                     | Selected                                                    |
| 1.1.1.1.x.43 | Buzzer ActDeact                      | Selected                                                    |
| 1.1.1.1.x.44 | Buzzer Act.Failed                    | Selected                                                    |
| 1.1.1.1.x.45 | Status LEDMode                       | Deselected                                                  |

## TOUCH KEYPADS

**Vedo10** x: from 1 to 1 / **Vedo34** x: from 1 to 2 / **Vedo68** x: from 1 to 4 / **Vedo200** x: from 1 to 4

| Indices      | Parameters                    | Configurations necessary to guarantee Grade 2 certification |
|--------------|-------------------------------|-------------------------------------------------------------|
| 1.1.1.3.x.52 | Extended Ethernet fault delay | Deselected                                                  |

## APP ACCOUNT

**Vedo10** x: from 1 to 16 / **Vedo34** x: from 1 to 16 / **Vedo68** x: from 1 to 32 / **Vedo200** x: from 1 to 32

| Indices      | Parameters                 | Configurations necessary to guarantee Grade 2 certification |
|--------------|----------------------------|-------------------------------------------------------------|
| 1.1.1.5.x.2  | Controllable areas         | At least one selected area                                  |
| 1.1.1.5.x.3  | Tamper areas               | At least one selected area                                  |
| 1.1.1.5.x.4  | Tamper cycles              | Unlimited                                                   |
| 1.1.1.5.x.9  | Send email                 | Selected                                                    |
| 1.1.1.5.x.10 | Send digital communication | Selected                                                    |
| 1.1.1.5.x.12 | Unlimited tamper cycles    | selected                                                    |
| 1.1.1.5.x.23 | Unlimited start-up time    | Deselected                                                  |

## HOME AUTOMATION SYSTEM MANAGER

**Vedo10** x: from 1 to 1 / **Vedo34** x: from 1 to 2 / **Vedo68** x: from 1 to 4 / **Vedo200** x: from 1 to 4

| Indices      | Parameters                    | Configurations necessary to guarantee Grade 2 certification |
|--------------|-------------------------------|-------------------------------------------------------------|
| 1.1.1.6.x.30 | Extended Ethernet fault delay | Deselected                                                  |

## INPUT/OUTPUT EXPANSION DEVICES (8I8O)

**Vedo10** x: not available / **Vedo34** x: from 1 to 8 / **Vedo68** x: from 1 to 12 / **Vedo200** x: from 1 to 50

| Indices      | Parameters                 | Configurations necessary to guarantee Grade 2 certification |
|--------------|----------------------------|-------------------------------------------------------------|
| 1.1.1.7.x.2  | Tamper areas               | At least one selected area                                  |
| 1.1.1.7.x.3  | Technical areas            | At least one selected area                                  |
| 1.1.1.7.x.4  | Tamper cycles              | Unlimited                                                   |
| 1.1.1.7.x.5  | Technical cycles           | Unlimited                                                   |
| 1.1.1.7.x.8  | Unlimited tamper cycles    | Selected                                                    |
| 1.1.1.7.x.9  | Unlimited technical cycles | Selected                                                    |
| 1.1.1.7.x.11 | Send email                 | Selected                                                    |
| 1.1.1.7.x.12 | Send Digital Com           | Selected                                                    |

## POWER SUPPLY STATIONS

**Vedo10** x: from 1 to 1 / **Vedo34** x: from 1 to 4 / **Vedo68** x: from 1 to 8 / **Vedo200** x: from 1 to 8

| Indices      | Parameters                  | Configurations necessary to guarantee Grade 2 certification |
|--------------|-----------------------------|-------------------------------------------------------------|
| 1.1.1.8.x.2  | Tamper Areas                | At least one selected area                                  |
| 1.1.1.8.x.3  | Technical Areas             | At least one selected area                                  |
| 1.1.1.8.x.4  | Tamper cycles               | Unlimited                                                   |
| 1.1.1.8.x.5  | Technical cycles            | Unlimited                                                   |
| 1.1.1.8.x.7  | Unlimited tamper cycles     | Selected                                                    |
| 1.1.1.8.x.8  | Unlimited technical cycles  | Selected                                                    |
| 1.1.1.8.x.10 | Send email                  | Selected                                                    |
| 1.1.1.8.x.11 | Send digital communications | Selected                                                    |
| 1.1.1.8.x.13 | Enable tamper               | Selected                                                    |
| 1.1.1.8.x.14 | Network alarm delay         | Max 60 seconds                                              |
| 1.1.1.8.x.15 | Battery alarm delay         | Max 5 minutes                                               |

## ISOLATORS

**Vedo10** x: from 1 to 4 / **Vedo34** x: from 1 to 8 / **Vedo68** x: from 1 to 16 / **Vedo200** x: from 1 to 16

| Indices      | Parameters                  | Configurations necessary to guarantee Grade 2 certification |
|--------------|-----------------------------|-------------------------------------------------------------|
| 1.1.1.9.x.2  | Tamper areas                | At least one selected area                                  |
| 1.1.1.9.x.3  | Technical areas             | At least one selected area                                  |
| 1.1.1.9.x.4  | Tamper cycles               | Unlimited                                                   |
| 1.1.1.9.x.5  | Technical cycles            | Unlimited                                                   |
| 1.1.1.9.x.7  | Unlimited tamper cycles     | Selected                                                    |
| 1.1.1.9.x.8  | Unlimited technical cycles  | Selected                                                    |
| 1.1.1.9.x.10 | Send email                  | Selected                                                    |
| 1.1.1.9.x.11 | Send digital communications | Selected                                                    |
| 1.1.1.9.x.13 | Enable tamper               | Selected                                                    |

## RADIO EXPANSION

**Vedo10** x: from 1 to 1 / **Vedo34** x: from 1 to 2 / **Vedo68** x: from 1 to 3 / **Vedo200** x: from 1 to 8

| Indices       | Parameters                 | Configurations necessary to guarantee Grade 2 certification |
|---------------|----------------------------|-------------------------------------------------------------|
| 1.1.1.10.x.2  | Tamper areas               | At least one selected area                                  |
| 1.1.1.10.x.3  | Technical areas            | At least one selected area                                  |
| 1.1.1.10.x.4  | Tamper cycles              | Unlimited                                                   |
| 1.1.1.10.x.5  | Technical cycles           | Unlimited                                                   |
| 1.1.1.10.x.7  | Unlimited tamper cycles    | Selected                                                    |
| 1.1.1.10.x.8  | Unlimited technical cycles | Selected                                                    |
| 1.1.1.10.x.10 | Send email                 | Selected                                                    |
| 1.1.1.10.x.11 | Send digital communication | Selected                                                    |

## RADIO OUTPUTS

**Vedo10** x: from 1 to 16 / **Vedo34** x: from 1 to 32 / **Vedo68** x: from 1 to 48 / **Vedo200** x: from 1 to 128

y: from 1 to 4

| Indices       | Parameters                       | Configurations necessary to guarantee Grade 2 certification |
|---------------|----------------------------------|-------------------------------------------------------------|
| 1.1.1.11 x 7  | Sounder on time out (not active) | **                                                          |
| 1.1.1.11.x.8  | Siren sound for on (not active)  | **                                                          |
| 1.1.1.11.x.13 | Cycle Outputs                    | **                                                          |
| 1.1.1.11.x.14 | Unlimited Cycle Outputs          | **                                                          |
| 1.1.1.11.x.15 | Output type                      | *** Monostable                                              |
| 1.1.1.11.x.17 | OFF Time                         | **                                                          |
| 1.1.1.11.x.19 | ON Time                          | **                                                          |
| 1.1.1.11.x.20 | System status areas              | At least one selected area                                  |

|               |                            |                            |
|---------------|----------------------------|----------------------------|
| 1.1.1.11.x.21 | Tamper and technical areas | At least one selected area |
| 1.1.1.11.x.22 | Sabotage cycles            | Unlimited                  |
| 1.1.1.11.x.23 | Technical cycles           | Unlimited                  |
| 1.1.1.11.x.24 | Monitoring time            | Maximum 20 minutes         |
| 1.1.1.11.x.25 | Unlimited sabotage cycles  | Selected                   |
| 1.1.1.11.x.26 | Unlimited technical cycles | Selected                   |
| 1.1.1.11.x.31 | Disable battery check      | Deselected                 |
| 1.1.1.11.x.32 | Sounder Volume             | High                       |
| 1.1.1.11.x.33 | Loss of communication      | Active                     |
| 1.1.1.11.x.36 | Status LEDs                | Deselected                 |
| 1.1.1.11.x.37 | Alarm action               | Sound + LED                |

\*\* The total activation time of a sounder must not exceed that prescribed by local regulations.

\*\*\* These apply only to sirens

## RADIO OUTPUT EVENTS

| Indices           | Parameters | Configurations necessary to guarantee Grade 2 certification |
|-------------------|------------|-------------------------------------------------------------|
| 1.1.1.11.x.27.y.1 | Event      | * Alarms/Sabotage + Motion sensor jamming fault             |
| 1.1.1.11.x.27.y.2 | Polarity   | * Direct                                                    |
| 1.1.1.11.x.27.y.3 | And/or     | * OR                                                        |

\* These apply only to sirens

## Radio output configuration

| Indices            | Parameters                                   | Configurations necessary to guarantee Grade 2 certification |
|--------------------|----------------------------------------------|-------------------------------------------------------------|
| 1.1.1.11.x.28.1.1  | Timer in And                                 | * No timer                                                  |
| 1.1.1.11.x.28.1.2  | Timer in Or                                  | * No timer                                                  |
| 1.1.1.11.x.28.1.7  | Events logic                                 | * OR                                                        |
| 1.1.1.11 x 28.1.9  | Send email                                   | Selected                                                    |
| 1.1.1.11 x 28.1.10 | Send Digital Dialler                         | Selected                                                    |
| 1.1.1.11.x.28.1.12 | Output activation only with system activated | Selected if connected to a sounder                          |

\* These apply only to sirens

## RADIO CONTROLS

**Vedo10** x: from 1 to 11 / **Vedo34** x: from 1 to 64 / **Vedo68** x: from 1 to 96 / **Vedo200** x: from 1 to 256

| Indices       | Parameters                  | Configurations necessary to guarantee Grade 2 certification |
|---------------|-----------------------------|-------------------------------------------------------------|
| 1.1.1.12.x.3  | Areas                       | At least one selected area                                  |
| 1.1.1.12.x.5  | Unlimited fault cycles      | Selected                                                    |
| 1.1.1.12 x 7  | Fault cycles                | Unlimited                                                   |
| 1.1.1.12.x.13 | Send email                  | Selected                                                    |
| 1.1.1.12.x.14 | Send digital communications | Selected                                                    |
| 1.1.1.12 x 19 | Forced activation           | Deselected                                                  |

## RADIO ZONES

**Vedo10** x: from 1 to 16, **Vedo34** x: from 1 to 64, **Vedo68** x: from 1 to 96 / **Vedo200** x: from 1 to 256

**Vedo10** y: from 1 to 2, **Vedo34** y: from 1 to 2, **Vedo68** y: from 1 to 2 / **Vedo200** y:1

| Indices       | Parameters             | Configurations necessary to guarantee Grade 2 certification |
|---------------|------------------------|-------------------------------------------------------------|
| 1.1.1.13.x.3  | System management      | Maximum 20 minutes                                          |
| 1.1.1.13.x.16 | Unlimited fault cycles | Selected                                                    |
| 1.1.1.13.x.18 | Fault cycles           | Unlimited                                                   |
| 1.1.1.13.x.20 | Enable tamper          | Selected                                                    |
| 1.1.1.13.x.40 | External input 1       | Minimum double balanced                                     |
| 1.1.1.13.x.41 | External input 2       | Minimum double balanced                                     |

## Radio subzone parameters

| Indices            | Parameters                              | Configurations necessary to guarantee Grade 2 certification |
|--------------------|-----------------------------------------|-------------------------------------------------------------|
| 1.1.1.13.x.21.1.3  | Areas                                   | At least one selected area                                  |
| 1.1.1.13.x.21.1.4  | Alarm cycles                            | Unlimited                                                   |
| 1.1.1.13.x.21.1.22 | Can be self-disabled (alarm only)       | Deselected                                                  |
| 1.1.1.13.x.21.1.23 | Auto excludable with reset (alarm only) | Deselected                                                  |
| 1.1.1.13.x.21.1.30 | Unlimited alarm cycles                  | Selected                                                    |
| 1.1.1.13.x.21.1.44 | Send email                              | Selected                                                    |
| 1.1.1.13.x.21.1.45 | Send digital com                        | Selected                                                    |

## WIRED ZONES

**Vedo10** x: from 1 to 16 / **Vedo34** x: from 1 to 95 / **Vedo68** x: from 1 to 133 / **Vedo 200** x: from 1 to 453

**Vedo10** y: from 1 to 1 / **Vedo34** y: from 1 to 2 / **Vedo68** y: from 1 to 2 / **Vedo200** y: from 1 to 2

| Indices       | Parameters             | Configurations necessary to guarantee Grade 2 certification                                                                                                                                            |
|---------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.1.1.14.x.13 | Balancing              | All alarm, fault and command zones must be set to double or triple balance or double with EOL. The sabotage zones must be set to single or double or triple or triple with jamming or double with EOL. |
| 1.1.1.14.x.14 | Unlimited fault cycles | Selected                                                                                                                                                                                               |
| 1.1.1.14.x.15 | Fault cycles           | Unlimited                                                                                                                                                                                              |

\* If triple balance is not used for all the sensors, three inputs of the control panel must be programmed to signal the following events:

- Detector fault
- Anti-robbery device fault, if robbery zone present
- Sounder fault

To ensure the products comply with standards EN 50131-1 and EN 50131-3 In order to guarantee compliance with standards EN 50131-1 and EN 50131-3, a sounder sabotage zone must be provided.

## Subzone parameters

| Indices            | Parameters                              | Configurations necessary to guarantee Grade 2 certification |
|--------------------|-----------------------------------------|-------------------------------------------------------------|
| 1.1.1.14.x.15.y.3  | Areas                                   | At least one selected area                                  |
| 1.1.1.14.x.15.y.4  | Alarm cycles                            | Unlimited                                                   |
| 1.1.1.14.x.15.y.22 | Can be self-disabled (alarm only)       | Deselected                                                  |
| 1.1.1.14.x.15.y.23 | Auto excludable with reset (alarm only) | Deselected                                                  |
| 1.1.1.14.x.15.y.30 | Unlimited alarm cycles                  | Selected                                                    |
| 1.1.1.14.x.15.y.44 | Send email                              | Selected                                                    |
| 1.1.1.14.x.15.y.45 | Send digital com                        | Selected                                                    |

## AREAS

**Vedo10** x: from 1 to 2 / **Vedo34** x: from 1 to 8 / **Vedo68** x: from 1 to 8 / **Vedo200** x: from 1 to 16

| Indices       | Parameters       | Configurations necessary to guarantee Grade 2 certification |
|---------------|------------------|-------------------------------------------------------------|
| 1.1.1.16 x 4  | Input 1 time     | Max 45 seconds                                              |
| 1.1.1.16 x 5  | Input 2 time     | Max 45 seconds                                              |
| 1.1.1.16 x 8  | Pre-alert time   | Other than 0                                                |
| 1.1.1.16.x.10 | Pre-alarm time   | 0                                                           |
| 1.1.1.16.x.15 | Report pre-alert | Selected                                                    |

## WIRED OUTPUTS

**Vedo10** x: from 1 to 7 / **Vedo34** x: from 1 to 91 / **Vedo68** x: from 1 to 147 / **Vedo200** x: from 1 to 451

y: from 1 to 4

| Indices       | Parameters       | Configurations necessary to guarantee Grade 2 certification |
|---------------|------------------|-------------------------------------------------------------|
| 1.1.1.17.x.3  | Output type      | * Monostable                                                |
| 1.1.1.17.x.5  | Unlimited cycles | Deselected                                                  |
| 1.1.1.17 x 6  | ON time scale    | **                                                          |
| 1.1.1.17 x 7  | ON Time          | **                                                          |
| 1.1.1.17.x.8  | OFF Time         | **                                                          |
| 1.1.1.17.x.10 | Cycles           | **                                                          |

\* These apply only to outputs connected to sirens

\*\* The total activation time of a sounder must not exceed that prescribed by local regulations.

## Wired output events

| Indices           | Parameters | Configurations necessary to guarantee Grade 2 certification |
|-------------------|------------|-------------------------------------------------------------|
| 1.1.1.17.x.11.y.1 | Event      | * Alarms/Sabotage + Motion sensor jamming fault             |
| 1.1.1.17.x.11.y.2 | Polarity   | * Direct                                                    |
| 1.1.1.17.x.11.y.3 | And/or     | * OR                                                        |

\* These apply only to outputs connected to sirens

## Wired output configuration

| Indices           | Parameters   | Configurations necessary to guarantee Grade 2 certification |
|-------------------|--------------|-------------------------------------------------------------|
| 1.1.1.17.x.12.1.1 | Timer in And | * No timer                                                  |
| 1.1.1.17.x.12.1.2 | Timer in Or  | * No timer                                                  |

| Indices            | Parameters                                   | Configurations necessary to guarantee Grade 2 certification |
|--------------------|----------------------------------------------|-------------------------------------------------------------|
| 1.1.1.17.x.12.1.7  | Events logic                                 | * OR                                                        |
| 1.1.1.17.x.12.1.9  | Send email                                   | Selected                                                    |
| 1.1.1.17.x.12.1.10 | Send Digital Dialler                         | Selected                                                    |
| 1.1.1.17.x.12.1.12 | Output activation only with system activated | Selected if connected to a sounder                          |

\* These apply only to outputs connected to sounders.  
For standard EN50131 an output of the control panel must be activated in the case of a fault and must not be connected to a sounder

## USER

**Vedo10** x: from 1 to 8 / **Vedo34** x: from 1 to 32 / **Vedo68** x: from 1 to 50 / **Vedo200** x: from 1 to 200

| Indices       | Parameters           | Configurations necessary to guarantee Grade 2 certification |
|---------------|----------------------|-------------------------------------------------------------|
| 1.1.1.20.x.17 | Send email           | Selected                                                    |
| 1.1.1.20.x.18 | Send digital dialler | Selected                                                    |

The codes accepted must have 6 figures and range from 000000 to 999998. Code 999999 is not an accepted code. The robbery code is the user code + 1.

Example: user code 111111, the corresponding robbery code is 111112. Code 119999, robbery code = 120000. Code 123459, robbery code = 123460 - It is not possible to register a user code corresponding to an existing user code + 1, since this new code corresponds to the robbery code of the existing user.

In the system it is therefore possible to store up to a theoretical maximum of 999943 user codes. The calculation is the result of the fact that it is not possible to create a user code that is the same as an existing user code + 1 (which is the robbery code). The actual maximum number of user codes that can be fitted is shown in the table "USER CODES / KEYS / REMOTE CONTROLS" on page 4.

The authorised user can perform an infinite number of changes of his user code and can create and delete another user, whereas he is unable to modify any user code other than his own.

## CODE TYPE

x: from 1 to 9

|               |                     |                                                                                                 |
|---------------|---------------------|-------------------------------------------------------------------------------------------------|
| 1.1.1.22.x.19 | Request assistance  | Active for at least one type of user (x enab. inst.) and one type of installer (x enab. manuf.) |
| 1.1.1.22.x.20 | Change Pin          | Active only for installers                                                                      |
| 1.1.1.22.x.21 | Reset control panel | Active at least for manufacturer                                                                |
| 1.1.1.22.x.23 | Fault management    | Active for all                                                                                  |
| 1.1.1.22.x.26 | Program from PC     | Active at least for installer and manufacturer                                                  |
| 1.1.1.22.x.42 | Codes menu          | Active for all                                                                                  |
| 1.1.1.22.x.44 | FW Update           | Only for manufacturer                                                                           |
| 1.1.1.22.x.45 | Reset alarms L3     | Selected<br>Deselected for Patrol                                                               |

## INSTALLERS

**Vedo10** x: from 1 to 3 / **Vedo34** x: from 1 to 6 / **Vedo68** x: from 1 to 6 / **Vedo200** x: from 1 to 6

|              |                      |          |
|--------------|----------------------|----------|
| 1.1.1.21.x.5 | Send email           | Selected |
| 1.1.1.21.x.6 | Send Digital Dialler | Selected |

## CODE TYPE

x: from 1 to 9

| Indices       | Parameters          | Configurations necessary to guarantee Grade 2 certification                                     |
|---------------|---------------------|-------------------------------------------------------------------------------------------------|
| 1.1.1.22.x.19 | Request assistance  | Active for at least one type of user (x enab. inst.) and one type of installer (x enab. manuf.) |
| 1.1.1.22.x.20 | Change Pin          | Active only for installers                                                                      |
| 1.1.1.22.x.21 | Reset control panel | Active at least for manufacturer                                                                |
| 1.1.1.22.x.23 | Fault management    | Active for all                                                                                  |

| Indices       | Parameters      | Configurations necessary to guarantee Grade 2 certification |
|---------------|-----------------|-------------------------------------------------------------|
| 1.1.1.22.x.26 | Program from PC | Active at least for installer and manufacturer              |
| 1.1.1.22.x.42 | Codes menu      | Active for all                                              |
| 1.1.1.22.x.44 | FW Update       | Only for manufacturer                                       |
| 1.1.1.22.x.45 | Reset alarms L3 | Selected<br>Deselected for Patrol                           |

## IP OPTIONS

| Indices       | Parameters            | Configurations necessary to guarantee Grade 2 certification |
|---------------|-----------------------|-------------------------------------------------------------|
| 1.1.1.24.1.1  | IP                    | * Completed                                                 |
| 1.1.1.24.1.2  | Netmask               | * Completed                                                 |
| 1.1.1.24.1.3  | Gateway               | * Completed                                                 |
| 1.1.1.24.1.4  | Dns1                  | * Completed                                                 |
| 1.1.1.24.1.5  | Dns2                  | * Completed                                                 |
| 1.1.1.24.1.18 | SMTP server           | * Completed                                                 |
| 1.1.1.24.1.19 | SMTP port             | * Completed                                                 |
| 1.1.1.24.1.20 | SMTP Email            | * Completed                                                 |
| 1.1.1.24.1.21 | SMTP Username         | * Completed                                                 |
| 1.1.1.24.1.22 | SMTP Password         | * Completed                                                 |
| 1.1.1.24.1.23 | SMTP Email subject    | * Completed                                                 |
| 1.1.1.24.1.24 | SMTP with ssl         | * Completed                                                 |
| 1.1.1.24.1.28 | SMTP enable           | * Selected                                                  |
| 1.1.1.24.1.29 | Internet check enable | * Selected                                                  |

\* If the digital dialler or voice messages are not enabled

## GSM SETTINGS

| Indices       | Parameters      | Configurations necessary to guarantee Grade 2 certification |
|---------------|-----------------|-------------------------------------------------------------|
| 1.1.1.25.1.24 | Jamming control | Selected                                                    |

## TRANSMISSION OPTIONS

| Indices       | Parameters                       | Configurations necessary to guarantee Grade 2 certification |
|---------------|----------------------------------|-------------------------------------------------------------|
| 1.1.1.28.1.5  | Tones recognition timeout        | = 60 seconds                                                |
| 1.1.1.28.1.9  | Telephone line parameters (pstn) | Selected                                                    |
| 1.1.1.28.1.10 | Length of call                   | = 60 seconds                                                |
| 1.1.1.28.1.12 | Voice message repetition         | 5                                                           |
| 1.1.1.28.1.14 | Attempts                         | 3                                                           |
| 1.1.1.28.1.15 | Send message                     | Press key 1                                                 |
| 1.1.1.28.1.16 | Termination with confirmation    | Selected                                                    |
| 1.1.1.28.1.19 | Tones check (pstn)               | Selected                                                    |
| 1.1.1.28.1.20 | Telephone line check (pstn)      | Selected                                                    |
| 1.1.1.28.1.21 | Priority Alerts Configuration    | SMS and MMS follow                                          |
| 1.1.1.28.1.22 | PSTN switchboard prefix          | * Empty                                                     |

\* The PSTN line must be connected before the switchboard.  
For DP1 and DP3 the flags "Use second channel as backup" must be selected.  
For SP2 and SP4: the flags "Use second channel as backup" do not need to be selected

## PHONE BOOK / EMAIL CONTACTS

x: from 1 to 16

| Indices      | Parameters    | Configurations necessary to guarantee Grade 2 certification |
|--------------|---------------|-------------------------------------------------------------|
| 1.1.1.29.x.1 | Description   | *                                                           |
| 1.1.1.29.x.2 | Phone         | *                                                           |
| 1.1.1.29.x.4 | Line active   | * At least one selected                                     |
| 1.1.1.29.x.7 | Email receipt | * At least one selected                                     |

\* If the digital dialler is not active, at least one user must be present

## DIGITAL DIALLER CONTACTS LIST

x: from 1 to 8

| Indices       | Parameters *             | Configurations necessary to guarantee Grade 2 certification                                                             |
|---------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 1.1.1.30.x.2  | Periodic test            | active                                                                                                                  |
| 1.1.1.30.x.4  | Protocol                 | Contact ID                                                                                                              |
| 1.1.1.30.x.5  | Test period              | <=25h                                                                                                                   |
| 1.1.1.30.x.6  | Attempts                 | 1                                                                                                                       |
| 1.1.1.30.x.7  | Intended location        | If the digital dialler is not active, at least the telephone sounder or email transmission must be configured correctly |
| 1.1.1.30.x.8  | Customer code            | Given a value                                                                                                           |
| 1.1.1.30.x.10 | Periodic test start date | Value before date of activating the system (must be before current date)                                                |

\* For **SP4/DP3**

**Periodic test:** active

**Protocol:** ADM-CID IP or SIA-DCS IP

**Test Period:** <= 3 min.

**IP number and port:** given the correct values

**Customer code, account prefix and receiver number:** given the correct values

**Periodic test start date:** value before system activation date (must be before current date)

**Wait time between attempts:** <= 60s

**Enable test periodic:** selected

**Data encryption:** selected

**Encryption key:** given the correct value

## GENERIC EVENTS

**Vedo10** x: from 1 to 20 / **Vedo34** x: from 1 to 32 / **Vedo68** x: from 1 to 48 / **Vedo200** x: from 1 to 48

| Indices       | Parameters               | Configurations necessary to guarantee Grade 2 certification |
|---------------|--------------------------|-------------------------------------------------------------|
| 1.1.1.31.x.2  | Event                    | *                                                           |
| 1.1.1.31.x.5  | Activation voice message | Active for at least one phone                               |
| 1.1.1.31.x.6  | Reset voice message      | Active for at least one phone                               |
| 1.1.1.31.x.9  | Send activation email    | Active for at least one email                               |
| 1.1.1.31.x.19 | Send address             | * Selected                                                  |

\* If the digital dialler is not active, the following events must be signalled:

- Robbery Alarm
- Burglar Alarm
- H24 Alarm
- Sabotage
- Expansion bus
- No network
- Radio sensor battery low
- Radio siren battery low
- Auto-activation failed
- Failed activation fault
- Zone failure
- Robbery zone failure
- Motion sensor jamming fault
- Regular pstn and email communication
- Regular gsm communication

Of course it must also be completed by sending the respective voice message.

## DETAILED EVENTS

x: from 1 to 8 y: from 1 to 8

| Indices      | Parameters         | Configurations necessary to guarantee Grade 2 certification |
|--------------|--------------------|-------------------------------------------------------------|
| 1.1.1.32.x.3 | Dialler telephones | At least one selected                                       |
| 1.1.1.32.x.4 | Areas              | At least one selected                                       |

### Detailed events flags

| Indices           | Parameters            | Configurations necessary to guarantee Grade 2 certification |
|-------------------|-----------------------|-------------------------------------------------------------|
| 1.1.1.32.x.6.y.2  | Zone Exclusion        | * - activation: Selected<br>* - restore: Selected           |
| 1.1.1.32.x.6.y.3  | Zone Isolation        | * - activation: Selected<br>* - restore: Selected           |
| 1.1.1.32.x.6.y.4  | Total ON              | * - activation: Selected                                    |
| 1.1.1.32.x.6.y.5  | Partial 1 ON          | * - activation: Selected                                    |
| 1.1.1.32.x.6.y.6  | Partial 2 ON          | * - activation: Selected                                    |
| 1.1.1.32.x.6.y.7  | Effective activation  | * - activation: Selected                                    |
| 1.1.1.32.x.6.y.8  | Disarmed              | * - activation: Selected                                    |
| 1.1.1.32.x.6.y.10 | Burglar Alarm         | * - activation: Selected<br>* - restore: Selected           |
| 1.1.1.32.x.6.y.11 | H24 alarm             | * - activation: Selected<br>* - restore: Selected           |
| 1.1.1.32.x.6.y.12 | Fire Alarm            | * - activation: Selected<br>* - restore: Selected           |
| 1.1.1.32.x.6.y.13 | Panic Alarm           | * - activation: Selected<br>* - restore: Selected           |
| 1.1.1.32.x.6.y.14 | Robbery Alarm         | * - activation: Selected<br>* - restore: Selected           |
| 1.1.1.32.x.6.y.15 | Flood Alarm           | * - activation: Selected<br>* - restore: Selected           |
| 1.1.1.32.x.6.y.16 | Gas Alarm             | * - activation: Selected<br>* - restore: Selected           |
| 1.1.1.32.x.6.y.17 | Medical Alarm         | * - activation: Selected<br>* - restore: Selected           |
| 1.1.1.32.x.6.y.18 | Zones Sabotage Tamper | * - activation: Selected<br>* - restore: Selected           |
| 1.1.1.32.x.6.y.19 | Siren tamper          | * - activation: Selected<br>* - restore: Selected           |
| 1.1.1.32.x.6.y.20 | Radio device jamming  | * - activation: Selected<br>* - restore: Selected           |

|                   |                                             |                                                   |
|-------------------|---------------------------------------------|---------------------------------------------------|
| 1.1.1.32.x.6.y.21 | Tamper App                                  | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.22 | Tamper free 1                               | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.23 | Tamper free 2                               | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.24 | Tamper free 3                               | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.25 | Tamper free 4                               | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.26 | Bus I/O expansion tamper                    | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.27 | BUS keypad tamper                           | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.28 | RFID tamper                                 | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.29 | Safetouch tamper                            | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.30 | Touch Tamper                                | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.31 | BUS power supply station or isolator tamper | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.32 | BUS radio concentrator tamper               | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.33 | Bus siren tamper                            | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.34 | Alarm communication device tamper           | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.35 | IP expansion tamper                         | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.36 | IP video expansion tamper                   | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.37 | Tamper bus free 0                           | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.38 | Tamper bus free 1                           | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.39 | Tamper bus free 2                           | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.40 | Tamper bus free 3                           | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.41 | Tamper bus free 4                           | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.42 | Remote communications tamper                | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.43 | GSM concentrator jamming                    | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.44 | False code                                  | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.45 | Zone failure                                | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.46 | Siren fuse fault                            | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.47 | Radio control fault                         | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.48 | Power supply unit fuse fault                | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.49 | Power supply unit battery fault             | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.50 | Radio output battery fault                  | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.51 | Bus siren battery fault                     | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.52 | No power supply unit network                | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.53 | Radio zone battery fault                    | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.54 | Radio control battery fault                 | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.55 | Input voltage level fault                   | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.56 | Output voltage level fault                  | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.57 | Zones RX monitoring                         | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.58 | Outputs RX monitoring                       | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.59 | Output fault                                | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.60 | Camera fault                                | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.61 | No GSM/GPRS coverage                        | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.62 | Telephone line fault                        | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.63 | Fault due to failed communication           | * - activation: Selected                          |
| 1.1.1.32.x.6.y.64 | Robbery zone failure                        | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.65 | Fault due to failed activation              | * - activation: Selected                          |
| 1.1.1.32.x.6.y.66 | IP Expansion fault on bus                   | * - activation: Selected<br>* - restore: Selected |

|                    |                                               |                                                   |
|--------------------|-----------------------------------------------|---------------------------------------------------|
| 1.1.1.32.x.6.y.67  | Motion sensor jamming fault                   | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.68  | Fault free 5                                  | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.69  | Fault free 6                                  | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.70  | I/O expansion Bus Fault                       | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.71  | Keypad Bus Fault                              | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.72  | Reader Bus Fault                              | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.73  | Safe Touch Bus Fault                          | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.74  | Touch Bus Fault                               | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.75  | Isolator Power Supply Unit Bus Fault          | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.76  | Radio Concentrator Bus Fault                  | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.77  | Siren Bus Fault                               | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.78  | Alarm Communication Device Bus Fault          | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.79  | IP Expansion Bus Fault                        | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.80  | IP Video Expansion Bus Fault                  | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.81  | Fault free bus 0                              | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.82  | Fault free bus 1                              | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.83  | Fault free bus 2                              | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.84  | Fault free bus 3                              | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.85  | Fault free bus 4                              | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.86  | Control Panel Battery Fault                   | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.87  | Control Panel Power Supply Mains Outage       | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.88  | Control panel pstn fault                      | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.89  | Control panel GSM fault                       | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.90  | Control panel IP fault                        | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.91  | Control panel voice synthesis fault           | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.92  | Control panel Intercom fault                  | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.93  | Control panel home automation expansion fault | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.94  | Auxiliary power supply fuse fault             | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.95  | Bus power supply fuse fault                   | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.96  | Siren power supply fuse fault                 | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.97  | Control panel power supply unit fault         | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.98  | Control panel bus fault                       | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.99  | Telephone line fault                          | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.100 | No GSM network                                | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.101 | No GPRS network                               | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.102 | Date lost                                     | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.108 | L2 forced ON                                  | * - activation: Selected                          |
| 1.1.1.32.x.6.y.109 | L3 forced ON                                  | * - activation: Selected                          |
| 1.1.1.32.x.6.y.116 | Timed activation error                        | * - activation: Selected                          |
| 1.1.1.32.x.6.y.119 | Technical programming                         | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.120 | Control panel in service                      | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.126 | Change date and time                          | * - activation: Selected                          |
| 1.1.1.32.x.6.y.127 | Change site data                              | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.140 | Lock RFID                                     | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.143 | Lock Web                                      | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.144 | PC lock                                       | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.145 | SMS lock                                      | * - activation: Selected<br>* - restore: Selected |

|                    |                             |                                                   |
|--------------------|-----------------------------|---------------------------------------------------|
| 1.1.1.32.x.6.y.146 | Voice Lock                  | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.147 | Home autom. lock            | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.151 | Activation action           | * - activation: Selected                          |
| 1.1.1.32.x.6.y.152 | Burglar Alarm Action        | * - activation: Selected                          |
| 1.1.1.32.x.6.y.153 | 24H Alarm Action            | * - activation: Selected                          |
| 1.1.1.32.x.6.y.154 | Fire Alarm Action           | * - activation: Selected                          |
| 1.1.1.32.x.6.y.155 | Panic Alarm Action          | * - activation: Selected                          |
| 1.1.1.32.x.6.y.156 | Robbery Alarm Action        | * - activation: Selected                          |
| 1.1.1.32.x.6.y.157 | Flood Alarm Action          | * - activation: Selected                          |
| 1.1.1.32.x.6.y.158 | Gas Alarm Action            | * - activation: Selected                          |
| 1.1.1.32.x.6.y.159 | Medical Alarm Action        | * - activation: Selected                          |
| 1.1.1.32.x.6.y.177 | Zone exclusion command      | * - activation: Selected                          |
| 1.1.1.32.x.6.y.178 | Zone inclusion command      | * - activation: Selected                          |
| 1.1.1.32.x.6.y.179 | Zone isolation command      | * - activation: Selected                          |
| 1.1.1.32.x.6.y.180 | Zone activation command     | * - activation: Selected                          |
| 1.1.1.32.x.6.y.183 | Safe Touch lock             | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.188 | Touch lock                  | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.200 | App locked                  | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.205 | Touch lock                  | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.208 | Digital dialler manual test | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.216 | Zone Inhibition             | * - activation: Selected<br>* - restore: Selected |
| 1.1.1.32.x.6.y.219 | Dialler parameters changed  | * - activation: Selected                          |
| 1.1.1.32.x.6.y.220 | Firmware update             | * - activation: Selected<br>* - restore: Selected |

\* Only for the digital dialler, email columns

## SERVICE VOICE MESSAGES

x: from 1 to 6

| Indices      | Parameters | Configurations necessary to guarantee Grade 2 certification |
|--------------|------------|-------------------------------------------------------------|
| 1.1.1.37.x.1 | Text       | The system address field must be completed                  |

## TIMER TYPES

**Vedo10** x: from 1 to 4 / **Vedo34** x: from 1 to 8 / **Vedo68** x: from 1 to 8 / **Vedo200** x: from 1 to 32

**Vedo10** y: from 1 to 4 / **Vedo34** y: from 1 to 16 / **Vedo68** y: from 1 to 16 / **Vedo200** y: from 1 to 32

## Timer type schedules

| Indices          | Parameters | Configurations necessary to guarantee Grade 2 certification |
|------------------|------------|-------------------------------------------------------------|
| 1.1.1.38.x.2.y.1 | Time ON1   | Timer 4 completed*                                          |
| 1.1.1.38.x.2.y.2 | Time OFF1  | Timer 4 completed*                                          |

\* **Timer 4 completed and linked with the two regular general events**

## TIMER MODEL

**Vedo10/Vedo34/Vedo68** x: from 1 to 30 / **Vedo200** x: from 1 to 60

| Indices       | Parameters        | Configurations necessary to guarantee Grade 2 certification |
|---------------|-------------------|-------------------------------------------------------------|
| 1.1.1.40.x.1  | Start day of week | Line 1 <sup>1**</sup>                                       |
| 1.1.1.40.x.2  | End day of week   | Line 1 <sup>1**</sup>                                       |
| 1.1.1.40.x.3  | Start month       | Line 1 <sup>1**</sup>                                       |
| 1.1.1.40.x.4  | End month         | Line 1 <sup>1**</sup>                                       |
| 1.1.1.40.x.5  | Start date        | Line 1 <sup>1**</sup>                                       |
| 1.1.1.40.x.6  | Selection         | First line selected                                         |
| 1.1.1.40.x.7  | End date          | Line 1 <sup>1**</sup>                                       |
| 1.1.1.40.x.8  | Start year        | Line 1 <sup>1**</sup>                                       |
| 1.1.1.40.x.9  | End year          | Line 1 <sup>1**</sup>                                       |
| 1.1.1.40.x.10 | Timer Type        | Line 1 'Timer 4'                                            |

## SYSTEM PARAMETERS

| Indices      | Parameters          | Configurations necessary to guarantee Grade 2 certification |
|--------------|---------------------|-------------------------------------------------------------|
| 1.1.1.43.1.2 | Customer Name       | Fill in the field                                           |
| 1.1.1.43.1.3 | System Address      | Fill in the field                                           |
| 1.1.1.43.1.4 | Network alarm delay | Max 60 seconds                                              |

|               |                                          |                                                      |
|---------------|------------------------------------------|------------------------------------------------------|
| 1.1.1.43.1.5  | Battery alarm delay                      | Max 5 minutes                                        |
| 1.1.1.43.1.14 | Code errors                              | <=10                                                 |
| 1.1.1.43.1.15 | Reactivation time                        | Minimum 2 minutes                                    |
| 1.1.1.43.1.16 | Alarm Cycles                             | Unlimited                                            |
| 1.1.1.43.1.17 | Fault Cycles                             | Unlimited                                            |
| 1.1.1.43.1.18 | Unlimited Alarm Cycles                   | Selected                                             |
| 1.1.1.43.1.19 | Unlimited fault cycles                   | Selected                                             |
| 1.1.1.43.1.20 | Device locked for incorrect code         | Selected                                             |
| 1.1.1.43.1.23 | Activation with monitoring fault         | Selected                                             |
| 1.1.1.43.1.24 | Forcing level 3 faults                   | Selected                                             |
| 1.1.1.43.1.25 | Forcing level 3 sabotage                 | Selected                                             |
| 1.1.1.43.1.30 | Installer always active                  | Deselected                                           |
| 1.1.1.43.1.32 | IP card enable                           | *At least one active of PSTN, GSM and IP             |
| 1.1.1.43.1.33 | Audio control enable                     | *Active if digital dialler or IP card is not enabled |
| 1.1.1.43.1.34 | GSM card enable                          | *At least one active of PSTN, GSM and IP             |
| 1.1.1.43.1.37 | PSTN enable (on board)                   | *At least one active of PSTN, GSM and IP             |
| 1.1.1.43.1.38 | Failed activation fault enable           | Selected                                             |
| 1.1.1.43.1.39 | Enable test for fault and zones sabotage | Deselected                                           |
| 1.1.1.43.1.42 | Default codes must be changed            | Selected                                             |
| 1.1.1.43.1.43 | IP Fault Delay                           | 00:00:00                                             |

**\* For SP1 at least one of the GSM, PSTN and IP cards active  
for SP4 at least one of the GSM or IP cards active  
for DP2 at least 2 of the GSM, PSTN and IP cards active  
for DP3 GSM and IP cards both active**

## EVENTS TO SAVE

x: from 1 to 2

| Indices       | Parameters                                  | Configurations necessary to guarantee Grade 2 certification |
|---------------|---------------------------------------------|-------------------------------------------------------------|
| 1.1.1.44.x.2  | Zone Exclusion                              | Selected                                                    |
| 1.1.1.44.x.3  | Zone Isolation                              | Selected                                                    |
| 1.1.1.44.x.4  | Total ON                                    | Only set selected                                           |
| 1.1.1.44.x.5  | Partial 1 ON                                | Only set selected                                           |
| 1.1.1.44.x.6  | Partial 2 ON                                | Only set selected                                           |
| 1.1.1.44.x.7  | Effective activation                        | Only set selected                                           |
| 1.1.1.44.x.8  | Disarmed                                    | Only set selected                                           |
| 1.1.1.44.x.10 | Burglar Alarm                               | Selected                                                    |
| 1.1.1.44.x.11 | H24 alarm                                   | Selected                                                    |
| 1.1.1.44.x.12 | Fire Alarm                                  | Selected                                                    |
| 1.1.1.44.x.13 | Panic Alarm                                 | Selected                                                    |
| 1.1.1.44.x.14 | Robbery Alarm                               | Selected                                                    |
| 1.1.1.44.x.15 | Flood Alarm                                 | Selected                                                    |
| 1.1.1.44.x.16 | Gas Alarm                                   | Selected                                                    |
| 1.1.1.44.x.17 | Medical Alarm                               | Selected                                                    |
| 1.1.1.44.x.18 | Zones Sabotage Tamper                       | Selected                                                    |
| 1.1.1.44.x.19 | Siren tamper                                | Selected                                                    |
| 1.1.1.44.x.20 | Radio device jamming                        | Selected                                                    |
| 1.1.1.44.x.21 | Tamper App                                  | Selected                                                    |
| 1.1.1.44.x.26 | Bus I/O expansion tamper                    | Selected                                                    |
| 1.1.1.44.x.27 | Bus keypad tamper                           | Selected                                                    |
| 1.1.1.44.x.28 | RFID tamper                                 | Selected                                                    |
| 1.1.1.44.x.29 | Safetouch tamper                            | Selected                                                    |
| 1.1.1.44.x.30 | Touch Tamper                                | Selected                                                    |
| 1.1.1.44.x.31 | Bus power supply station or isolator tamper | Selected                                                    |
| 1.1.1.44.x.32 | Bus radio concentrator tamper               | Selected                                                    |
| 1.1.1.44.x.33 | Bus siren tamper                            | Selected                                                    |
| 1.1.1.44.x.34 | Alarm communication device tamper           | Selected                                                    |
| 1.1.1.44.x.35 | IP expansion tamper                         | Selected                                                    |
| 1.1.1.44.x.36 | IP video expansion tamper                   | Selected                                                    |
| 1.1.1.44.x.42 | Remote communications tamper                | Selected                                                    |
| 1.1.1.44.x.43 | GSM concentrator jamming                    | Selected                                                    |
| 1.1.1.44.x.44 | False code                                  | Selected                                                    |
| 1.1.1.44.x.45 | Zone failure                                | Selected                                                    |
| 1.1.1.44.x.46 | Siren fuse fault                            | Selected                                                    |
| 1.1.1.44.x.47 | Radio control fault                         | Selected                                                    |
| 1.1.1.44.x.48 | Power supply unit fuse fault                | Selected                                                    |
| 1.1.1.44.x.49 | Power supply unit battery fault             | Selected                                                    |
| 1.1.1.44.x.50 | Radio output battery fault                  | Selected                                                    |
| 1.1.1.44.x.51 | Bus siren battery fault                     | Selected                                                    |
| 1.1.1.44.x.52 | No power supply unit network                | Selected                                                    |
| 1.1.1.44.x.53 | Radio zone battery fault                    | Selected                                                    |
| 1.1.1.44.x.54 | Radio control battery fault                 | Selected                                                    |
| 1.1.1.44.x.55 | Input voltage level fault                   | Selected                                                    |
| 1.1.1.44.x.56 | Output voltage level fault                  | Selected                                                    |
| 1.1.1.44.x.57 | Zones RX monitoring                         | Selected                                                    |
| 1.1.1.44.x.58 | Outputs RX monitoring                       | Selected                                                    |
| 1.1.1.44.x.59 | Output fault                                | Selected                                                    |
| 1.1.1.44.x.60 | Camera fault                                | Selected                                                    |

|                |                                         |                   |
|----------------|-----------------------------------------|-------------------|
| 1.1.1.44.x.61  | No GSM/GPRS coverage                    | Selected          |
| 1.1.1.44.x.62  | Telephone line fault                    | Selected          |
| 1.1.1.44.x.63  | Fault due to failed communication       | Only set selected |
| 1.1.1.44.x.64  | Robbery zone failure                    | Selected          |
| 1.1.1.44.x.65  | Fault due to failed activation          | Only set selected |
| 1.1.1.44.x.66  | IP Expansion fault on bus               | Selected          |
| 1.1.1.44.x.67  | Motion sensor jamming fault             | Selected          |
| 1.1.1.44.x.70  | I/O expansion Bus Fault                 | Selected          |
| 1.1.1.44.x.71  | Keypad Bus Fault                        | Selected          |
| 1.1.1.44.x.72  | Reader Bus Fault                        | Selected          |
| 1.1.1.44.x.73  | Safe Touch Bus Fault                    | Selected          |
| 1.1.1.44.x.74  | Touch Bus Fault                         | Selected          |
| 1.1.1.44.x.75  | Isolator Power Supply Unit Bus Fault    | Selected          |
| 1.1.1.44.x.76  | Radio Concentrator Bus Fault            | Selected          |
| 1.1.1.44.x.77  | Siren Bus Fault                         | Selected          |
| 1.1.1.44.x.78  | Alarm Communication Device Bus Fault    | Selected          |
| 1.1.1.44.x.79  | IP Expansion Bus Fault                  | Selected          |
| 1.1.1.44.x.80  | IP Video Expansion Bus Fault            | Selected          |
| 1.1.1.44.x.86  | Control Panel Battery Fault             | Selected          |
| 1.1.1.44.x.87  | Control Panel Power Supply Mains Outage | Selected          |
| 1.1.1.44.x.88  | Control panel pstn fault                | Selected          |
| 1.1.1.44.x.89  | Control panel GSM fault                 | Selected          |
| 1.1.1.44.x.90  | Control panel IP fault                  | Selected          |
| 1.1.1.44.x.91  | Control panel voice synthesis fault     | Selected          |
| 1.1.1.44.x.94  | Auxiliary power supply fuse fault       | Selected          |
| 1.1.1.44.x.95  | Bus power supply fuse fault             | Selected          |
| 1.1.1.44.x.96  | Siren power supply fuse fault           | Selected          |
| 1.1.1.44.x.97  | Control panel power supply unit fault   | Selected          |
| 1.1.1.44.x.98  | Control panel bus fault                 | Selected          |
| 1.1.1.44.x.99  | Telephone line fault                    | Selected          |
| 1.1.1.44.x.100 | No GSM network                          | Selected          |
| 1.1.1.44.x.101 | No GPRS network                         | Selected          |
| 1.1.1.44.x.102 | Date lost                               | Selected          |
| 1.1.1.44.x.103 | Inactivity                              | Selected          |
| 1.1.1.44.x.106 | Zone test                               | Selected          |
| 1.1.1.44.x.107 | User logged in                          | Selected          |
| 1.1.1.44.x.108 | L2 forced ON                            | Selected          |
| 1.1.1.44.x.109 | L3 forced ON                            | Selected          |
| 1.1.1.44.x.110 | Negligence                              | Selected          |
| 1.1.1.44.x.111 | Alarm Memory                            | Selected          |
| 1.1.1.44.x.113 | Reset alarms                            | Selected          |
| 1.1.1.44.x.114 | Stop alarms                             | Selected          |
| 1.1.1.44.x.115 | Stop telephone calls                    | Selected          |
| 1.1.1.44.x.116 | Timed activation error                  | Selected          |
| 1.1.1.44.x.119 | Technical programming                   | Selected          |
| 1.1.1.44.x.120 | Control panel in service                | Selected          |
| 1.1.1.44.x.123 | Reset system alarms                     | Selected          |
| 1.1.1.44.x.124 | Stop system alarms                      | Selected          |
| 1.1.1.44.x.125 | Stop system telephone calls             | Selected          |
| 1.1.1.44.x.126 | Change date and time                    | Selected          |
| 1.1.1.44.x.127 | Change site data                        | Selected          |
| 1.1.1.44.x.130 | Telephone call failed                   | Only set selected |
| 1.1.1.44.x.131 | Outgoing phone communication            | Selected          |
| 1.1.1.44.x.132 | Digital dialler periodic test           | Selected          |
| 1.1.1.44.x.135 | Lock keypad                             | Selected          |
| 1.1.1.44.x.140 | Lock RFID                               | Selected          |
| 1.1.1.44.x.143 | Lock Web                                | Selected          |
| 1.1.1.44.x.144 | PC lock                                 | Selected          |
| 1.1.1.44.x.145 | SMS lock                                | Selected          |
| 1.1.1.44.x.146 | Voice Lock                              | Selected          |
| 1.1.1.44.x.151 | Activation action                       | Only set selected |
| 1.1.1.44.x.152 | Burglar Alarm Action                    | Only set selected |
| 1.1.1.44.x.153 | 24H Alarm Action                        | Only set selected |
| 1.1.1.44.x.154 | Fire Alarm Action                       | Only set selected |
| 1.1.1.44.x.155 | Panic Alarm Action                      | Only set selected |
| 1.1.1.44.x.156 | Robbery Alarm Action                    | Only set selected |
| 1.1.1.44.x.157 | Flood Alarm Action                      | Only set selected |
| 1.1.1.44.x.158 | Gas Alarm Action                        | Only set selected |
| 1.1.1.44.x.159 | Medical Alarm Action                    | Only set selected |
| 1.1.1.44.x.160 | Event 1 key command                     | Only set selected |
| 1.1.1.44.x.161 | Event 2 key command                     | Only set selected |
| 1.1.1.44.x.162 | Extraordinary command                   | Only set selected |
| 1.1.1.44.x.163 | Stop alarms command                     | Only set selected |
| 1.1.1.44.x.164 | Reset alarms command                    | Only set selected |
| 1.1.1.44.x.165 | Reset telephone calls command           | Only set selected |
| 1.1.1.44.x.166 | Reset Control panel command             | Only set selected |
| 1.1.1.44.x.167 | Request support command                 | Only set selected |
| 1.1.1.44.x.168 | Authorise installer command             | Only set selected |
| 1.1.1.44.x.169 | Confirm code command                    | Only set selected |
| 1.1.1.44.x.170 | Confirm key command                     | Only set selected |
| 1.1.1.44.x.171 | Login upgrade command                   | Only set selected |
| 1.1.1.44.x.172 | Authorise manufacturer command          | Only set selected |
| 1.1.1.44.x.177 | Zone exclusion command                  | Only set selected |
| 1.1.1.44.x.178 | Zone inclusion command                  | Only set selected |
| 1.1.1.44.x.179 | Zone isolation command                  | Only set selected |
| 1.1.1.44.x.180 | Zone activation command                 | Only set selected |
| 1.1.1.44.x.183 | Safe Touch lock                         | Selected          |
| 1.1.1.44.x.188 | Touch lock                              | Selected          |
| 1.1.1.44.x.191 | Added code command                      | Only set selected |
| 1.1.1.44.x.192 | Removed code command                    | Only set selected |

|                |                             |                   |
|----------------|-----------------------------|-------------------|
| 1.1.1.44.x.193 | Changed code command        | Only set selected |
| 1.1.1.44.x.194 | Added key command           | Only set selected |
| 1.1.1.44.x.195 | Removed key command         | Only set selected |
| 1.1.1.44.x.196 | Changed key command         | Only set selected |
| 1.1.1.44.x.197 | Reset database command      | Only set selected |
| 1.1.1.44.x.200 | App locked                  | Selected          |
| 1.1.1.44.x.205 | Touch lock                  | Selected          |
| 1.1.1.44.x.208 | Digital dialler manual test | Selected          |
| 1.1.1.44.x.209 | Sending SMS                 | Only set selected |
| 1.1.1.44.x.210 | Sending email               | Only set selected |
| 1.1.1.44.x.211 | Sending MMS                 | Only set selected |
| 1.1.1.44.x.213 | Activation lock cause       | Only set selected |
| 1.1.1.44.x.214 | Sending telephone call      | Only set selected |
| 1.1.1.44.x.216 | Inhibited Zone              | Selected          |
| 1.1.1.44.x.217 | NAK digital communication   | Only set selected |
| 1.1.1.44.x.218 | Digital communication OK    | Only set selected |
| 1.1.1.44.x.219 | Dialler parameters changed  | Only set selected |
| 1.1.1.44.x.220 | Firmware update             | Selected          |
| 1.1.1.44.x.221 | NAK email communication     | Only set selected |

## CONFIGURATIONS NECESSARY TO GUARANTEE INCERT CERTIFICATION

This chapter provides indications on the configuration parameters which, if altered, could lower the safety level of the system, and the configurations necessary to guarantee I&HAS certification. For further details on programming and configuration, consult the programming manual, which is available to download from the website [pro.comelitgroup.com](http://pro.comelitgroup.com)



To guarantee Incert certification, ALL configurations required for Grade 2 certification (see page 45) must be observed, except for the settings listed in the following tables.

### CODE TYPE

| Indices       | Parameters      | Configurations necessary to guarantee INCERT certification |
|---------------|-----------------|------------------------------------------------------------|
| 1.1.1.22.x.45 | Reset alarms L3 | Selected<br>Deselected for manufacturer                    |

### SYSTEM PARAMETERS

| Indices       | Parameters               | Configurations necessary to guarantee INCERT certification |
|---------------|--------------------------|------------------------------------------------------------|
| 1.1.1.43.1.25 | Forcing level 2 sabotage | Deselected                                                 |

## Official symbol conventions for anti-intrusion systems

|  |                                             |
|--|---------------------------------------------|
|  | Rilevatore a contatto magnetico             |
|  | Rilevatore inerziale di vibrazione          |
|  | Rilevatore microfonico per vetri            |
|  | Rilevatore microfonico                      |
|  | Rilevatore ad infrarossi passivi            |
|  | Rilevatore a microonde                      |
|  | Centrale                                    |
|  | Organo di comando a chiave elettronica      |
|  | Inviatore di messaggi su linea dedicata     |
|  | Inviatore di messaggi su linea commutata    |
|  | Apparato di allarme acustico autoalimentato |
|  | Apparato di allarme acustico                |
|  | Apparato di allarme luminoso                |

## Shielded cable conductor resistance table

| SHIELDED ALARM CABLE FORMATION | CONDUCTOR DIAMETER [mm] | MINIMUM RESISTANCE OHM PER 1 METRE | MINIMUM RESISTANCE OHM PER 100 METRES |
|--------------------------------|-------------------------|------------------------------------|---------------------------------------|
| n X 0.22 mm <sup>2</sup>       | 0.50                    | 0.085                              | 8.5                                   |
| n X 0.50 mm <sup>2</sup>       | 0.80                    | 0.032                              | 3.2                                   |
| n X 0.75 mm <sup>2</sup>       | 0.90                    | 0.026                              | 2.6                                   |
| n X 1 mm <sup>2</sup>          | 1                       | 0.020                              | 2                                     |
| n X 1.5 mm <sup>2</sup>        | 1.28                    | 0.013                              | 1.3                                   |
| n X 2.5 mm <sup>2</sup>        | 1.65                    | 0.008                              | 0.82                                  |

### INPUT AND SIGNAL CONNECTIONS

For the bus signals (A and B) you can use a conductor with section of 0.22 mm<sup>2</sup>.

The resistance shown in the table refers to a single conductor, so if, for example, you want to evaluate the additional resistance introduced by the cable for a run of 100 m, you need to double the length. You therefore need to consider a total length of 200 m for the conductor (100 m outwards to the point and 100 m return from the point).

In the case of a contact connected to the control panel by a run of 100 m of cable with "n" structure for 0.22 mm<sup>2</sup>, the total resistance added by the cable becomes 17 ohm. For connection to an alarm input, 17 ohm does not generally compromise the performance of the system.

## POWER SUPPLY CONNECTIONS

In the above circumstances, the resistance can be overlooked in the majority of cases. More care must be taken, however, if the cable has to carry power: in this case, the resistance could cause a significant drop for the purposes of correct operation of the device you intend to power.

Supposing we have a run of 100 m of cable powering a device with consumption of 100 mA. Using Ohm's Law 1, let us analyse the voltage drops for a range of sections:

$$0.22 \text{ mm}^2 : V = R \cdot I = 17 \cdot 0.1 = 1.7 \text{ V}$$

$$0.50 \text{ mm}^2 : V = R \cdot I = 6.4 \cdot 0.1 = 0.64 \text{ V}$$

$$0.75 \text{ mm}^2 : V = R \cdot I = 5.2 \cdot 0.1 = 0.52 \text{ V}$$

$$1 \text{ mm}^2 : V = R \cdot I = 4 \cdot 0.1 = 0.4 \text{ V}$$

This is why it is important to size the power supply conductors correctly.

**$V = R \cdot I$** . The estimated drop in Volts is equal to the total resistance of the circuit, expressed in Ohms, multiplied by the circulating current *I*, expressed in Ampere.

The wires used must comply to reference standards: IEC 60332-1-2 for wires with a cross-section of 0.5 mm<sup>2</sup> or greater and IEC 60332-2-2 for those with a cross-section under 0.5 mm<sup>2</sup>.

## Data network connection cable

To connect the IP module from the Vedo control panel to a data network, you need to go through a hub or a network switch. The control panel will be connected by means of a network cable in straight configuration. In many cases, it will be possible to buy a standard cable of suitable length, but when this is not possible, you will need to make the connection autonomously.

This is done using UTP CAT5 cable or higher.

The cable will be terminated at both ends with RJ45 plugs with the aid of a specific crimp tool. Both RJ45 plugs must be wired in the same sequence as shown in the figure.

The conductor colours shown in the figure must be rigorously observed. Non-conformance with the colours may cause the connection to work intermittently or not at all.

Procedure:

Remove about 5 cm of jacket from the cable so as to make the 4 pairs of wire accessible

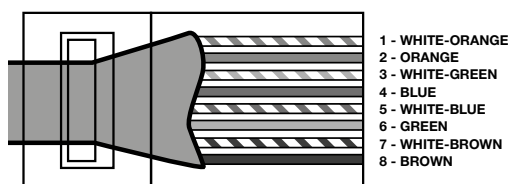
Separate the conductors into pairs

Stretch the conductors out so as to straighten them, and place them in the order shown in the figure

Adjust the length of the conductors to about 12 mm

Insert the conductors as shown in the figure (the connector is illustrated as seen from the side).

EIA/TIA-568B



CERTIFIED MANAGEMENT SYSTEMS



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