

MITRA 110S USER MANUAL

GENERAL SPECIFICATIONS

MITRA 110S is a wired room thermostat. The user can adjust the room temperature with the required temperature and get more comfortable and economic heating.

- Precise Temperature Measurement
- TPI Algorithm
- Wired Connection
- ON/OFF Control

MITRA 110S AND EQUIPMENTS

MITRA 110S
Room Thermostat



Alkaline
Battery



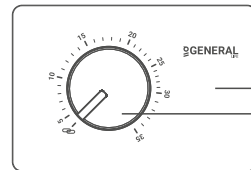
Dowels and
Screws



TECHNICAL DATA

Dimensions (H / L / W)	85mm / 125mm / 24mm
Operating Current	3V DC (2 x AAA alkaline battery)
Relay NO Switching Current	2A/30VDC (Resistive load) 0.5A/125VAC (Resistive load)
Temperature Measurement Accuracy	0.1°C
Operating Temperature Range	(5°C) – (35°C)
Battery Life	1 Year (2 x AAA)
Operating Temperature	(-10°C) – (+50°C)
Storage Temperature	(-20°C) – (+60°C)

ROOM THERMOSTAT

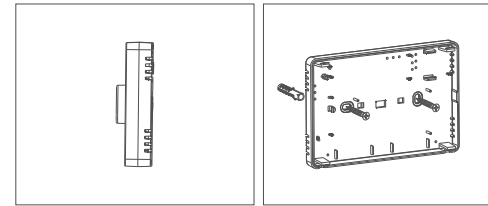
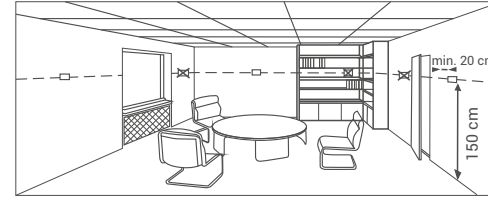


Room Thermostat Indicator LED Descriptions

If it blinks once	The relay contact opens and the heating unit stops working.
If it blinks twice	The relay contact closes and the heating unit starts.

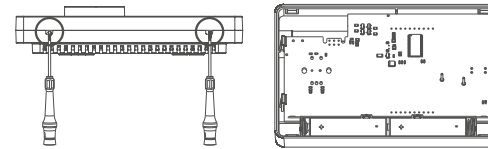
ROOM THERMOSTAT PLACEMENT

Room Thermostat needs to be placed in the room which is used most frequently. For instance; living room or lounge. Placing the Room Thermostat in a spot that have air circulation like entrance of a room or side of window should be avoided. Also anywhere close to heating units such as radiator, stove and spots which get direct sun lights would not be suitable. Room Thermostat needs to be located above the floor 150 cm height. Few trials may be made to find the most convenient spot.



BATTERY PLACEMENT

Before starting, power off the device connected to the Room Thermostat and make sure that the energy is cut off.



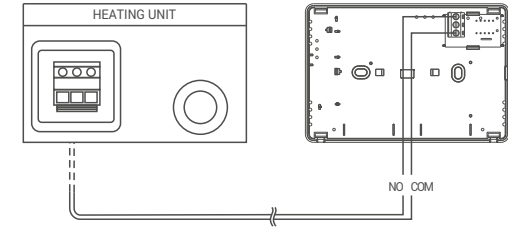
As shown in the picture above, press the screwdriver forward from the space shown, bend the tabs and separate the front cover. Insert 2 new AAA alkaline batteries in the battery housing with the correct battery direction. Replace both batteries at the same time. Then align the front part of your Room Thermostat to the back and squeeze it towards the back.

WARNING!

When the product is not used for a long period (more than 15 days), remove the batteries. Otherwise, malfunctions that may occur would be out of warranty.

Please throw your dead batteries into the waste bin for batteries.

ROOM THERMOSTAT WIRING DIAGRAM



WARNING!

Operations inside the boiler or related to the electrical installation must be carried out by persons with professional competence.

TPI ROOM THERMOSTAT WORKING LOGIC

Your Room Thermostat works with the TPI algorithm in the heating option. Room Thermostats using TPI technology predict when the temperature of your home will rise above or below the set temperature and turn the heating unit on and off accordingly. This ensures that your home stays at the temperature you set without maximum deviations up and down.

• What is TPI?

TPI technology is designed to ensure that you get the best possible energy efficiency from your heating system. It measures and applies the best possible timings to deliver and maintain your home at the set temperature level.

• How does TPI work?

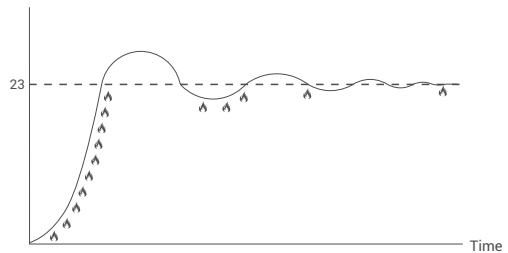
Thanks to the advanced artificial intelligence technology found in the software, it adapts to the temperature change of the environment in which it is located. By creating a general temperature map of your home, it learns how long it takes to reach the desired room temperature and how to maintain this temperature. In this way, it provides minimum energy consumption by calculating how long your heating unit should work for.

• What is the difference?

In non-TPI room thermostats, the heating unit works and stops continuously until it exceeds the set temperature value. If the set temperature drops below a certain amount, the heating unit will work again. This creates greater temperature fluctuations and less energy control. TPI Room Thermostats, on the other hand, provide higher savings and comfort compared to On/Off room thermostats with the advantages it has.

TPI ROOM THERMOSTAT WORKING GRAPH

TEMPERATURE (°C) -- -- Desired Temperature — TPI Room Thermostat



WHAT TO KNOW ABOUT TPI ROOM THERMOSTAT

- If the placement of the TPI Room Thermostats is changed, the learning process will restart. The learning process should be considered as 7 days.
- If the TPI Room Thermostats are de-energized (battery replacement), the learning process will restart. The learning process should be considered as 7 days.

FREQUENTLY ASKED QUESTIONS

- Is my Room Thermostat compatible with my heating unit?
If your heating unit has on-off connections, your Room Thermostat is compatible. You can find information about your heating unit from your heating unit operating manual or from your heating unit service.
- How will I connect my Room Thermostat to the heating unit?
We recommend that the connection between your Room Thermostat and the Heating unit should be made by professionally qualified persons.
2x0.75 mm cable is sufficient for the Room Thermostat – heating unit connection.
Connect one end of the cable pair to the room thermostat connection terminals stated in the user manual of the heating unit.
Connect the other end of the cable pair to COM and NO inputs of the terminal inside the Wall Hanger of Room Thermostat as shown in the "ROOM THERMOSTAT WIRING DIAGRAM" section.
The direction of the cable ends does not matter.

DECLARATION OF CONFORMITY

ISIPARK İÇ VE DIŞ TIC. İNŞ. İSİTMA SİSTEMLERİ OTO. SAN. A.Ş. which Head Office and production site is located on Fatih Mah. 1188 Sk. No:13/A Sarıç - Gaziemir - İZMİR – TÜRKİYE confirms and declares that the product marked with CE and its specifications below is covered by the provisions of the mentioned directive.
Brand : GENERAL Life
Product Name : MITRA 110S
Product Type : Digital Room Thermostat
Compatible Directives:
Electromagnetic Compatibility Regulation 2014/30/EU (EN 61000-6-1:2019, EN 61000-6-3:2021)
Low Voltage Directive 2014/35/EU (EN 60730-2-9)
Additional Information: The mentioned product can be used with heating units with on / off output and compliance with the directives only covers the product. ISIPARK is not responsible for the entire system's compliance with the directives. This statement is not valid if changes are made to the product without our approval.



WARRANTY CONDITIONS

- 1-The warranty period starts from the invoice date and warranted against manufacturing defects for 5 years.
- 2-Devices and apparatus are delivered to the customer in working condition in our company. On-site commissioning is subject to a service fee.
- 3-The repair of the devices and apparatus covered by the warranty is carried out in our company factory and should send by contracted transportation company. In on-site services, the transportation and accommodation expenses of the service personnel belong to the customer. The shift fee during transportation is added to the service fee and collected in advance.
- 4-The maintenance of devices and apparatus is done in our company. For the maintenance of the devices and apparatus, the round travel fares belongs to the customer.
- 5-In case of malfunctioning of the devices and apparatus whose warranty period continues, it is tested in our company whether the malfunction is caused by a customer or manufacturer fault, and it is reported with a report issued by our company.
- 6-In case of detection of manufacturer-induced errors of devices and apparatus whose warranty period continues, the customer can request a replacement or repair of the devices and apparatus at full expense by the manufacturer, unless it's higher than the product's price.
- 7-In the event that the faults of the devices and apparatus whose warranty period continues are determined as caused by the customer, all expenses would be belong to the customer.
- 8-Customers should be aware of damages (if there is any) of product and warn manufacturer since the day warranty duration starts. If customer do not warn manufacturer with knowledge of damage, customer lose the rights of article 6.
- 9-Malfunctions resulting from the use of devices and apparatus contrary to the matters stated in the User Manual are not covered by the warranty.
- 10-Devices and their apparatus are out of warranty if they are beaten, broken or scratched by the customer.
- 11-Damages resulting from the use of devices and apparatus belonging to other brands and models without the approval of the manufacturer are not covered by the warranty.
- 12-Battery leakage and errors due to rust, oxidation and liquid contact by working in acidic / humid environments are not covered by the warranty.
- 13-When the product is not used for a long period (more than 15 days), remove the batteries. Otherwise, malfunctions that will occur are out of warranty.
- 14-Damages that may occur during the transportation of devices and apparatus are not covered by the warranty. Customers can take a transportation insurance.
- 15-Damages caused by mains voltage / faulty electrical installation are not covered by the warranty.
- 16-Devices and apparatuses are out of warranty for malfunctions caused by force majeure such as fire, flood, earthquake etc.
- 17-All of the devices and apparatuses, including all their parts, are under the warranty of our company.
- 18-In case of malfunction of the devices and apparatuses within the warranty period, the time spent during repairment period is added to the warranty period. The repair period of the product cannot exceed 20 working days. This period starts from the date of notification to the service station of the malfunction related to the product or, in the absence of a service station, to the seller, dealer, agency, representative, importer or manufacturer of the product. Consumer can report the problem by; phone, fax, e-mail, registered and reply paid letter or a similar way. However, in case of a conflict, responsibility of prove is belong to the customer. If the malfunction of the product is

- not repaired within 20 working days, the manufacturer-producer or importer, has to allocate another product with similar features to the use of the consumer until the repair of the product is completed,
- 19-Although the consumer uses his/her repair rights,
-If the product breaks down for 4 times in a year or 6 times in warranty duration and these problems effects main purpose of the product. (starting from delivery time during warranty.)
-Exceeding the maximum time required for repair,
-In the event that the service station is not available, if it is determined that the repair of the defect is not possible with the report prepared (in order) by one of the seller, dealer, agency, representative, importer or manufacturer, a refund or a price discount at the rate of defect can be requested.
 - 20-The customer can make complaints and appeals to consumer courts or consumer arbitration committees.
 - 21-The warranty document must be kept by the customer during the warranty period. If the document is lost, a second document will not be issued. In case of loss, repair and replacement of devices and apparatus will be made for a fee.

WARRANTY CERTIFICATE

Manufacturer

Title: ISIPARK İÇ DIŞ TIC. A.Ş.
Address: Fatih Mah. 1188 Sk. No:13/A Sarıç
Gaziemir İzmir-TÜRKİYE
Tel: +90 (232) 457 99 50
Fax: +90 (232) 457 91 22
E-mail: generallife@generallife.com.tr
Authorized Signature:
Company Stamp:

Product

Type: Digital Room Thermostat
Brand: GENERAL Life
Model: MITRA 110S
Warranty Period: 5 Years
Max. Time to Repair: 20 Days
Bandrol and Serial Number:



Vendor

Title:
Address:
Tel: Fax:
E-Mail:
Invoice Date and Number:
Delivery Time and Place:
Authorized Signature:
Company Stamp:

Product

Type: Digital Room Thermostat
Brand: GENERAL Life
Model: MITRA 110S

STAMP