



The product model and code (6 digits) are printed on the sticker on the outside or the inside of the battery compartment cover. The manual may not be available in the selected language.

# Silver TA S

**COD. 578811**



## PRODUCT DESCRIPTION

SILVER TA S is a digital room thermostat with TPI algorithm, ideal for regulating heating or cooling. The backlit LCD display clearly shows the detected room temperature, set temperature, active operating mode, status icons and flat battery warning. The external knob makes temperature regulation even more immediate. Includes the Antifreeze function and allows temperature calibration with a range of  $\pm 8^{\circ}\text{C}$ .

- Precise temperature measurement
- Battery powered (included in the package)
- ON/OFF control
- Heating/cooling calibration
- Cable connection to the boiler
- Heating/cooling mode
- TPI algorithm
- Precise temperature measurement

## DECLARATION OF CONFORMITY

Compatible Directives:

Electromagnetic Compatibility Regulation 2014/30/EU (EN 61000-6-3: 2021, EN 61000-6-1: 2019)

Low Voltage Directive 2014/35/EU (EN IEC 60730-2-9:2019/A2:2020, IEC 60730-1:2013/AMD2:2020)

## TECHNICAL DATA

Dimensions: 85mm / 125mm / 24mm

Operating Current: 3V DC (2 x AAA alkaline battery)

Relay NO Switching Current:

2A/30VDC (Resistive load)

2A/250VAC (Resistive load)

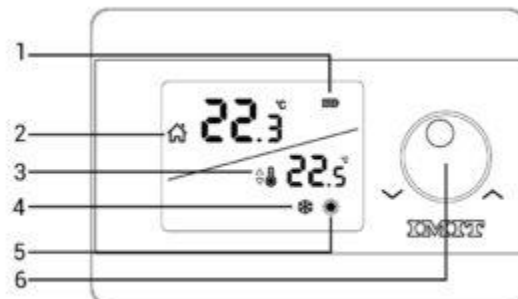
Temperature Measurement Accuracy:  $0,1^{\circ}\text{C}$  **Ok Read more**

Operating Sensitivity:  $0,5^{\circ}\text{C}$

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Operating Temperature Range:  $5^{\circ}\div 30^{\circ}\text{C}$   
 Battery Life: 1 Year (2 x AAA)  
 Operating Temperature:  $-10^{\circ}\div 50^{\circ}\text{C}$   
 Storage Temperature:  $-20^{\circ}\div ^{\circ}\text{C}$

## CONTROLS AND DISPLAY LEGEND



- 1 – Battery Indicator
- 2 – Room Temperature
- 3 – Set Temperature
- 4 – Cooling Indicator
  - If the Cooling Indicator is blinking, the cooling unit is working.
  - If the Cooling Indicator is steady, the cooling unit is not working.
- 5 – Heating Indicator
  - If the Heating Indicator is blinking, the heating unit is working.
  - If the Heating Indicator is steady, the heating unit is not working.
- 6 – ON/OFF and Temperature Setting Button

It is recommended to install the thermostat scrupulously complying with the safety standards and legal provisions in force. Before making any connections, make sure that the main switch has been turned off.

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## INSTALLATION

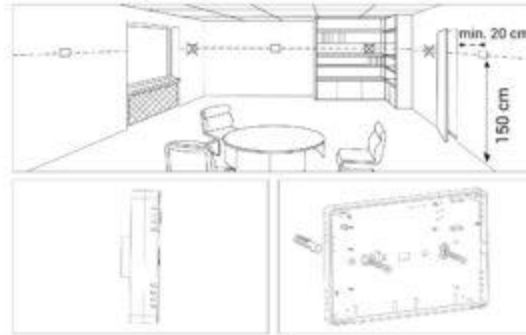
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### ROOM THERMOSTAT PLACEMENT

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/cooling 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.

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## BATTERY PLACEMENT

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

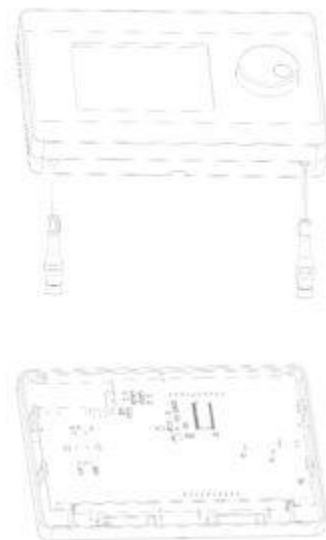
As shown in the picture, press the screwdriver forward from the space shown, bend the tabs and separate the front cover. Insert 2 new AAA alkaline batteries in the battery housing with the correct battery direction. Replace both batteries at the same time. Then align the front part of your Room Thermostat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

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## BATTERY REPLACEMENT

When the **Lb** icon appears on the screen, it means “low battery warning”. It is recommended to replace the batteries when this warning appears.

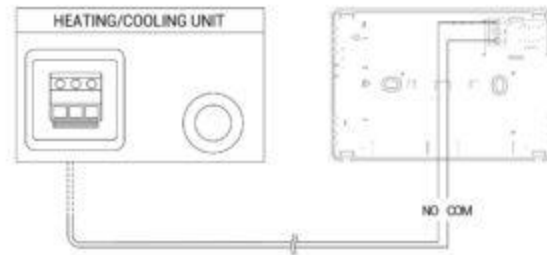
**Warning:** When the product is not used for a long period (more than 15 days), remove the batteries. Otherwise, malfunctions that may occur would be out of warranty. Please throw your dead batteries into the waste bin for batteries.



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## ROOM THERMOSTAT WIRING DIAGRAM

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### HEATING/COOLING UNIT

#### **Warning!**

Operations within the heating / cooling unit or the electrical installation must be carried out by professionally qualified persons.

## ROOM THERMOSTAT TEMPERATURE CALIBRATION

Temperature sensors which are used in Room Thermostats are highly sensitive. You may need to calibrate your Room Thermostat if you would like to get the same temperature values with other thermometers in your living space. While your device is turned off, press and hold the button for 3 seconds.

Press the button until the “CAL” menu appears. In order to see the desired temperature, set the temperature difference by turning the button to right or left. This value can be arranged between “-8°C” and “+8°C”.

To save the settings and exit, press the “On/Off” button until the device turns off.

**Note:** Recommended temperature calibration is “0.0°C”.

## ROOM THERMOSTAT HEATING / COOLING MODES

Your Room Thermostat has heating and cooling modes. In order to switch easily between heating and cooling modes:

While your device is turned off, press and hold the button for 3 seconds.

Press the button until the “FUN” menu appears.

You can switch between “HER” (heating) and “COO” (cooling) modes by turning the button to right or left in the “FUN” menu.

To save the settings and exit, press the button until the device turns off.

The settings you have made have been saved. Once you turned on your device, it will operate with the changed settings.

## FACTORY SETTINGS RESET

You can reset your Room Thermostat to its default factory settings. This operation resets the calibration setting and heating/cooling modes to factory setting. To reset your Room Thermostat to factory setting:

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While your device is turned off, press and hold the button for 3 seconds.

Press the button until the “RST” menu appears **Ok Read more**

While in the “RST” menu, turn the button to right or left in order to select “YS” option and press the button.

Your device will be turned off and reset to factory settings.

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## DESCRIPTION OF CONTROLS AND OPERATION

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### MANUAL MODE

To change the room temperature, turn the knob right or left to set the desired temperature.

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## TPI ROOM THERMOSTAT WORKING LOGIC

Your Room Thermostat works with the TPI algorithm. Room Thermostats using TPI technology predict when the temperature of your home will rise above or below the set temperature and turn the heating / cooling 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 / cooling 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 / cooling unit should work for.

### What is the difference?

In non-TPI room thermostats, the heating / cooling unit works and stops continuously until it exceeds the set temperature value. If the set temperature drops below a certain amount, the heating / cooling 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.

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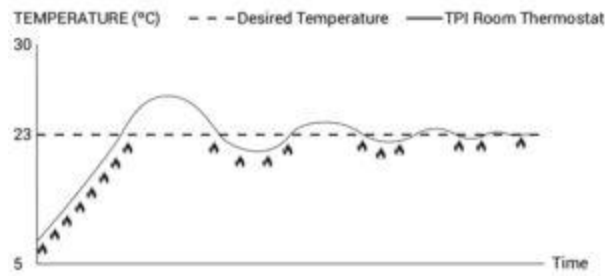
## Heating Mode

Your room thermostat takes the average room temperature of last 40 seconds as basis. With the TPI algorithm in the product by creating a general temperature map of your home, it learns how long it takes to reach the desired room temperature and how this temperature is maintained. Thus, it ensures that the room temperature remains within a certain range.

### TPI ROOM THERMOSTAT HEATING MODE WORKING GRAPHIC

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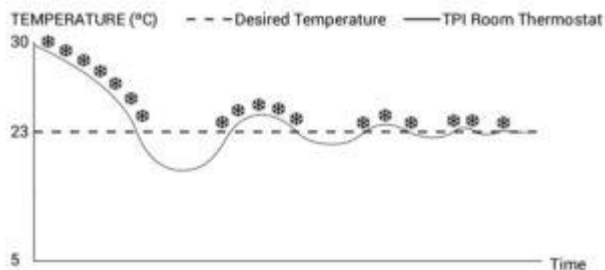
**Ok** **Read more**



## Cooling Mode

Your room thermostat takes the average room temperature of last 40 seconds as basis. With the TPI algorithm in the product by creating a general temperature map of your home, it learns how long it takes to reach the desired room temperature and how this temperature is maintained. Thus, it ensures that the room temperature remains within a certain range.

### TPI ROOM THERMOSTAT COOLING MODE WORKING GRAPHIC



## WHAT TO KNOW ABOUT TPI ROOM THERMOSTAT

If the placement of the TPI Room Thermostats is changed, the learning process will restart. 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/cooling unit?

If your heating / cooling unit has on-off connections, your Room Thermostat is compatible. You can find information about your heating / cooling unit from your heating / cooling unit operating manual or from your heating / cooling unit service.

- How will I connect my Room Thermostat to the heating/cooling unit?

We recommend that the connection between your Room Thermostat and the Heating/Cooling unit should be made by professionally qualified persons.

2×0.75 mm cable is sufficient for the Room Thermostat – heating / cooling unit connection.

Connect one end of the cable pair to the room thermostat connection terminals stated in the user manual of the heating / cooling unit.

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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.

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The direction of the cable ends does not matter.

## WARRANTY CONDITIONS

Refer to the warranty conditions in our catalog or production guide currently in force, which can be downloaded from the Imit.it website, or request a copy at [info@imit.it](mailto:info@imit.it)

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