

Installation



- The apparatus must not be installed with the control box TH-RAD located topside.
- Don't mount the radiator with control box TH-RAD touching the floor or the wall.
- Don't mount the radiator below a power supply socket.
- The electronic thermostat should be connected only to 220-230 V AC. Respect the conventional colours:

Brown	Line Wire
Blue or Grey	Neutral Wire
Black	Fil-Pilote Wire

- An all-pole disconnection from the supply is required, incorporated in the fixed wiring. Switches intended to ensure all-pole disconnection must be directly connected with the supply terminals and must have a contacts distance of at least 3 mm in each pole.
- You must protect the electrical line with a **high sensitivity differential device**.
- The electronic thermostat is a class II apparatus and it is protected from water contact. In the bathroom it may be mounted in the zone 2 and 3 (see figure 1): TH-RAD cannot be touched by person using the bath or shower.
- The electrical cable is meant to be connected to electrical system through a connection box placed behind the apparatus, without an electrical plug. The connection box must be at least 25 cm from the floor.

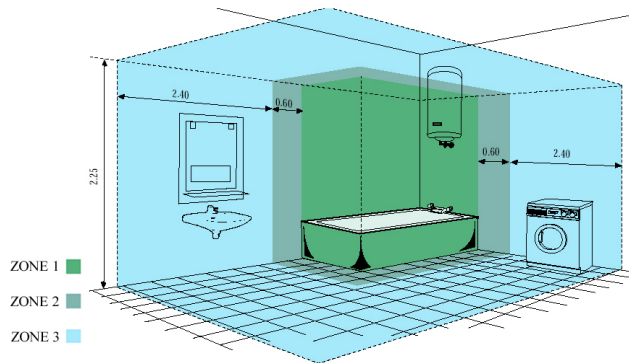


Figure 1 : Classification of the Bathroom Zones

TH-RAD Use

TH-RAD has five different operating modes. The TH-RAD's panel has two knobs (see figure 2). In order to set the desired operation mode, turn the control knob 1. The led describes the working status of the thermostat.

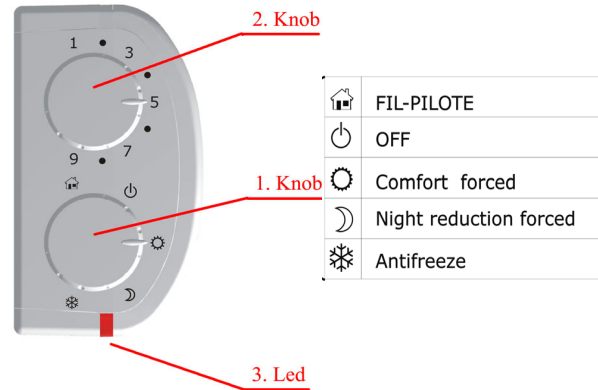


Figure 2 : Panel of the TH-RAD

Off Mode



The heater is disconnected. However the electric thermostat TH-RAD is still powered.

- Turn the knob 1 to choose "Off" mode
- The led is off.

Comfort Mode



This is the operating mode for the normal use of the electronic thermostat TH-RAD.

- Turn the knob 1 to choose "Comfort Forced" mode
- Turn the knob 2 to choose the desired temperature ambient of the room. In the panel you see the numbers of the scale. With knob 1 in "Comfort Forced" mode, the range of the temperature is 15°C to 30°C, except for the minimum position which corresponds to 7°C. The figure 3 shows the scale of the knob 2.
- The led is green, it becomes red when the heater is supplied.

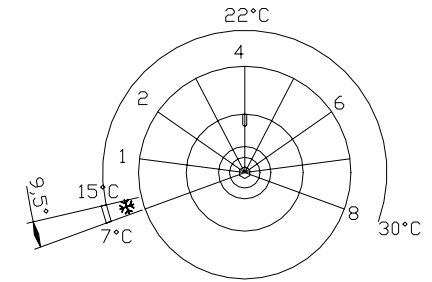


Figure 3 : Scale of the knob 2 of TH-RAD



This scale is reliable only for heater which is placed in place with standard conditions. It is normal that the thermostat setting isn't be identical in order to obtain the same temperature in two different rooms (influence of environment).

Night Reduction Forced



This is the operating mode for the night time use of the electronic thermostat TH-RAD. The electronic thermostat works to set the ambient temperature equal at the value established with knob 2, minus 3.5°C.

- Turn the knob 1 to choose "Night Reduction Forced" mode
- The led is green, it becomes red when the heater is supplied

Antifreeze



This is the operating mode that guarantees a minimum ambient temperature of around 7°C.

- Turn the knob 1 to choose "Antifreeze" mode.
- The led is green, it becomes red when the heater is supplied

Fil-Pilote mode



TH-RAD apparatus may be regulated using a main programmer.

- Turn the knob 1 to choose "Fil-Pilote" mode
- In "Stop" mode the led is off, in the other modes the led is green, it becomes red when the load is supplied.

Operating Mode	Function
COMFORT	Temperature set
NIGHT REDUCTION	Temperature set minus 3.5°C
ANTIFREEZE	Safe temperature 7°C to avoid freezing
STOP	Regulator stopped
ECO1	Temperature set minus 1°C
ECO2	Temperature set minus 2°C

Table 1

Technical Characteristics Of Electronic Thermostat TH-RAD

Power Supply	230V ±10% AC 50 Hz
Heating Element Power	2000W Maximum
Insulation class	Class II
Box Protection Class	IP24
Box Protection Impacts	IK09
Operating Temperature	0÷50°C
Storage Temperature	-20÷80°C
Operating Humidity	20÷95% without condensates
Setting Temperature Range	7°C 15÷30 °C
Setting Temperature Steps	1/16 °C
Maximum Regulation Error	0.5 °C
NF performance	Cat. C



- This appliance is intended only for room heating. Any other use is forbidden.
- Before connecting the power supply, check that the thermostat is completely closed and not damaged.
- Don't cut the power supply cable in order to disconnect the thermostat.
- Don't use heater without thermostat and/or safety thermal fuse.
- The electrical cable cannot be repaired. If it is damaged it must be replaced by a specific one. This cable replacement must be done by a qualified professional.
- When the pilot wire (black wire) is not connected, safety regulations require to be insulated and no event connected to the ground.
- If the led fast blinks red, there is a temperature sensor fault: please contact the manufacturer.
- This appliance is intended to be connected only to 230V 50 Hz AC. Check voltage type and value before switching on the thermostat.

Guarantee

The thermostat is guaranteed two years for any manufacturing defects, from the purchase date. In the event of modifications, spare parts are guaranteed for one year. The guarantee is valid only with the dated sales receipt.



Installation must be in accordance with current standards and book rule of the country in which it's put into service.

Electronic Thermostat USER MANUAL



IMPORTANT



Read the instructions carefully before you use the electronic thermostat.