

## Installation Rules



- The apparatus must not be installed with the control box located topside.
- The heater must not be located immediately below a socket outlet or switch.

- Don't mount the radiator with the control box touching the floor or the wall.
- The electronic thermostat should be connected only to 230 V AC 50Hz. Respect the conventional colours: if no plug is present.

Brown	Line Wire
Blue or grey	Neutral Wire
Black	Fil-Pilote Wire (only class II)
Yellow - Green	Earth (only class I)

- 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.
- Protect the electrical line with a **high sensitivity differential device**.
- The electronic thermostat is a class I or II apparatus and it is protected from water contact. In the bathroom it may be mounted in the zone 3 (see figure 1): making it impossible to be touched by person using the bath or shower.
- The electrical cable is meant to be connected to electrical system through a connection box without an electrical plug (restriction valid for class II only). The connection box or socket-outlet must be at least 25 cm from the floor.

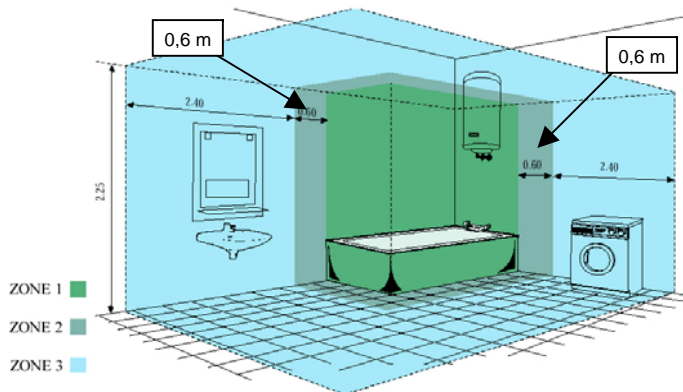
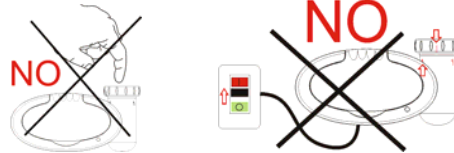


Figure 1: Classification of the Bathroom Zones



### SAFETY INFORMATION

- Weather installing or removing the regulator verify that the **power supply is switched off**.
- Do not insert metallic object or finger inside of rapid attach.



- Before switching on the power ensure that the rapid attach is closed and locked (index on closed padlock symbol).

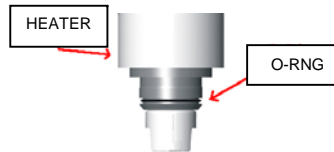
### Installation of towel rail

The towel rail is mounted against the wall, using the special stirrups. The distance of thermostat from the wall must be a value from 40mm to 80mm.



### Installation of Regulator to Quick Connect

1. Be sure that the O-RING of the heater's connection is the correct position and it isn't damaged (otherwise replace it).



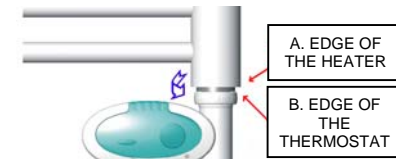
2. Before inserting the plug in the resistance, bring the index A of the ring above the open padlock symbol B.



3. Insert the plug into the heating element with moderate pressure, if necessary line up the contacts rotating to control.



4. Line up the control with the towel heater.



5. Insert the control until edge A of the heater is against the higher part B of the thermostat.



6. Rotate the ring in clockwise direction, until the index A arrives above the closed padlock symbol B; you should hear a "click".

## THERMOSTAT USE

The appliance has two buttons and a knob, as shown in figure 2. To turn the appliance ON/OFF press button 3: when Regulator is ON, the LED is red when the element is powered and green when no power is applied. There are four operating modes: normal mode, forced march (to dry clothes), antifreeze mode and Fil-Pilote mode (class II only).

### Normal Mode

This operating mode is use to heat the ambient temperature.

1. Press button 3 to power the appliance
2. Turn knob 1 to the desired temperature. As illustrated on the scale (See figure 3). The temperature ranges between 7°C to 30°C; number 1 correspond to about 7°C setting up to the end of the regulation scale, at the very end of the scale there is the temperature bulb symbol for (100% max power), at this point it is possible to maintain the maximum temperature continuously. The scale of the knob 1 isn't linear, it's an expanded scale. Use this scale to set the desirable temperature.

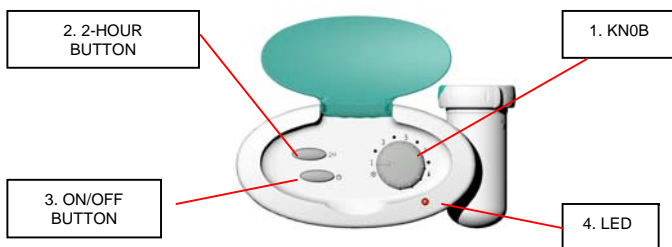


Figure 2 : Electronic thermostat

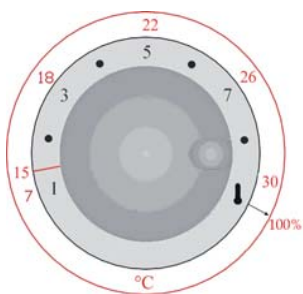


Figure 3 : Scale of the knob 1 of Regulator



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).

### **Forced March Mode**

Select this operating mode to power on the radiator continually for two hours: select this mode if you want to dry clothes.

1. Press button 2 : the led will start blinking slowly.
2. The system goes to heating mode for two hours, you may interrupt the cycle at any time by pushing button 2 again.

### **Antifreeze Mode**

Select this operating mode to maintain ambient temperature of above 7°C.

1. Press button 3 to power on the appliance.
2. To activate the antifreeze function, turn the potentiometer 1 counter - clockwise to minimum position. The LED remains green when no power is supplied to the heater, but charges to red when the heater is powered.

### **Fil-Pilote Mode (class II only)**

The apparatus may be regulated using a main Fil-Pilote standard programmer.

1. Press button 3 to power ON the appliance.
2. Make sure that the knob 1 isn't set to antifreeze mode, forced march mode (2 Hrs) or in the 100% constantly On function.

The signals must be considered like in Table 1:

<b>Comfort</b>	Temperature set
<b>Night Reduction</b>	Temperature set minus 3.5°C
<b>Antifreeze</b>	Safe temperature 7°C to avoid freezing
<b>Stop</b>	Regulator stopped
<b>ECO1</b>	Temperature set minus 1°C
<b>ECO2</b>	Temperature set minus 2°C

Table 1

### **Technical Characteristics Of Electronic Thermostat Regulator**

Power Supply	230V ±10% AC 50 Hz
Max Heating Element Power	2000W
Insulation class	Class I or II
Water Protection Class	Class I IPX1, Class II IPX4
Box Protection Impacts	IK09
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 80°C
Operating Humidity	0 – 85% without condensation
Regulation	Proportional and Integral
Temperature Setting	Analogical with Knob
Setting Temperature Range	7°C 15 – 30°C
Temperature Resolution	1/16 °C
Max Amplitude	0,5 °C

### **Guarantee**

Electronic element 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 comply to all national safety regulations and laws in force in the country where the product is installed.***

## **Electronic Thermostat EXAMPLE OF USER MANUAL**



### **IMPORTANT**



Read the instructions carefully before you use the electronic thermostat



- This appliance is intended only for drying textiles washed in water. Any other use is forbidden.
- Before connecting the power supply, plug the thermostat in the towel heater and lock with the ring (refer to the «Installation of regulator and Rapid Attach» section) .
- Switch off the mains before any installation, de-installation or maintenance operation on the thermostat.
- Don't cut the power supply cable to switch the apparatus off.
- Don't use heater without thermostat with safety thermal fuse.
- The electrical cable cannot be repaired. If it is damaged the complete product must be replaced.
- When the pilot wire (black wire) is not connected, safety regulations requires that it be insulated and not connected to the ground.
- If the led fast blinks red, there is a temperature sensor fault: please contact the manufacturer.
- The nominal voltage of the thermostat must be the same one of the network.
- The socket-outlet (class I only) and the power lines must be dimensioned in order to support the necessary load.
- The socket-outlet must be compatible with the plug of the thermostat (class I only).
- The plug is provided of grounding functioning according to the standard in force (class I only).
- Avoid any contact with chemical products or alcohol including the liquid inside the radiator.