

Installation Rules



- The apparatus must not be installed with the control box Medusa located topside.
- The heater must not be located immediately below a socket outlet or switch.
- Don't mount the radiator with control box Medusa touching the floor or the wall.
- The electronic thermostat should be connected only to 230 V AC 50Hz. For model without plug, respect the conventional colours:

Brown	Line Wire
Blue / Grey	Neutral Wire
Black	Fil pilote (for class II product)
Yellow - Green	Earth (for class I product)

- 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 can be class I or class II apparatus but is not protected from contact with water. In the bathroom must not be mounted in all the zone (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 the electrical system through a connection box placed behind the apparatus, without an electrical plug (restriction valid for models without plug). The connection box or socket-outlet must be at least 25 cm from the floor.

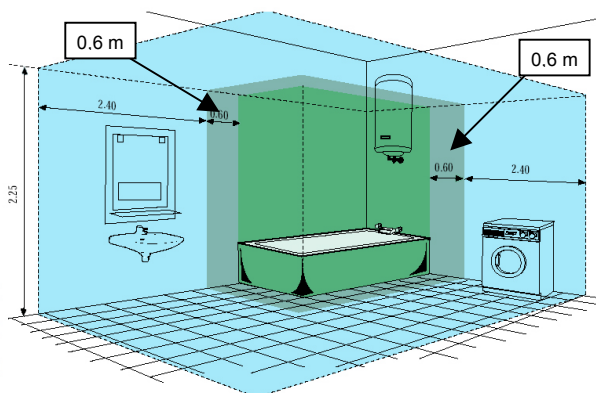


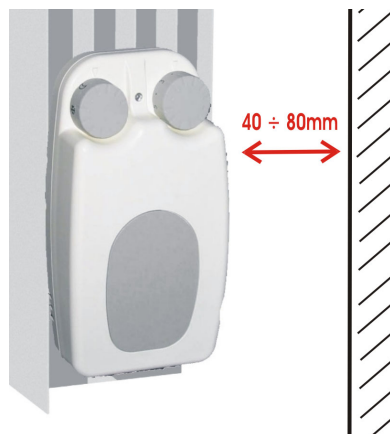
Figure 1: Classification of the Bathroom Zones

SAFETY INFORMATION



- When installing / removing the regulator verify that the **main power is switched off**.
- When radiator is installed make sure that Medusa is fixed straight and not bent or twisted and it's surely fixed into radiator.

Installation of radiator



The radiator is mounted against the wall, using the special stirrups. The distance of thermostat Medusa from the wall must be 40mm to 80mm.


MEDUSA USE

The appliance has two knobs as figure 2 illustrates. Turn on or turn off the appliance turning mode knob as described in "Operating mode" section: when Medusa is on, the led is green if set temperature is reached otherwise it's red if room temperature is lower then set temperature.



Fil-Pilote operating Mode

This operating mode is intended for the normal use of the electronic element, in order to heat the ambient when operating modes are received from a remote central control.


1. Turn the knob 1 in  position.
2. Turn the knob 2 to choose the desired temperature. In the knob 2 you see the numbers of the scale. The range of the temperature is 15°C to 30°C; number 1 corresponds about 15°C and number 9 corresponds about 30°C. As the figure 3 illustrates, the scale of the knob 2 is linear. Use this scale to set the desirable temperature.
3. The operating mode will be selected by your remote Fil-Pilote central.
4. The normal function mode is selected if remote Fil-Pilote central is not installed.

Note: For class I product there isn't a Fil-Pilote command, the product operate as in confort mode, described as follow



Confort operating Mode

This operating mode is intended for the normal use of the electronic element, in order to heat the ambient.

1. Turn the knob 1 in  position.
2. Turn the knob 2 to choose the desired temperature. In the knob 2 you see the numbers of the scale. The range of the temperature is 15°C to 30°C; number 1 corresponds about 15°C and number 9 corresponds about 30°C. As the figure 3 illustrates, the scale of the knob 2 is linear. Use this scale to set the desirable temperature.

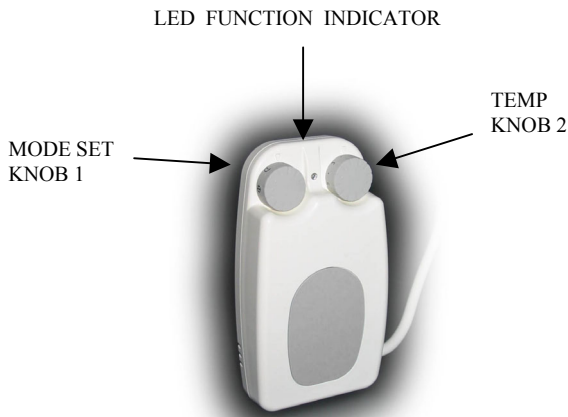


Figure 2 : Electronic thermostat

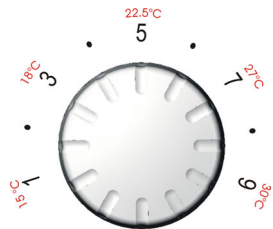








Figure 3 : Scale of the temp knob 2 of Medusa

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

Operating modes

The mode **knob 1** defines Medusa operating modes:

Command	Description	LED
	FIL-PILOTE mode: • The temperature is set by FIL-PILOTE command. • All FIL-PILOTE commands are enabled.	FIL-PILOTE (see tab. FIL-PILOTE)
	Stop mode: • The heater is off • All FIL-PILOTE commands are disabled.	OFF
	Confort mode: • Regulation of set temperature • All FIL-PILOTE commands are disabled except from stop command.	GREEN TEMP-SET>-0.5 RED TEMP-SET<-1.0

	Night reduction: • Regulation of set temperature - ECO! • All FIL-PILOTE commands are disabled except from stop command.	GREEN TEMP-SET>-0.5 RED TEMP-SET<-1.0
	Antifreeze mode: • Minimum safe temperature of 7°C • All FIL-PILOTE commands are disabled except from stop command.	GREEN TEMP-SET>-0.5 RED TEMP-SET<-1.0
FAULT	Fault. • Temperature sensor fault	RED fast blink

Fil Pilot modes

- When fil-pilot mode is selected the set temperature is define by temperature knob and fil pilote signals.
- The Medusa thermostat is made to recognize 6 order fil-pilote signals.

Technical Characteristics Of Electronic Thermostat MEDUSA

Power Supply	230V ±10% AC 50 Hz
Max Heating Element Power	2000W
Insulation class	Class I or II
Water Protection Class	IPX0
Box Protection Impacts	IK05
Operating Temperature	0 – 50°C
Storage Temperature	-20 – 80°C
Operating Humidity	0 – 85% without condensation
Max Temp. for Mountig Surface	80°C
Regulation	Proportional and Integral
Temperature Setting	Analogic with Knob
Setting Temperature Range	7°C, 15 – 30°C
Temperature Resolution	1/10 °C
Max Amplitude	0,5 °C

Guarantee

Electronic element is guaranteed for two years from 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 EXEMPLE OF USER MANUAL



IMPORTANT



Read the instructions carefully before using the electronic thermostat.



- This appliance is intended only for room thermo-regulation. Any other use is forbidden.
- Switch off the mains before any installation, de-installation or maintenance operation on the thermostat.
- Don't cut the power supply cable.
- Don't use heater without thermostat with 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.
- Don't use the thermostat if it's not correctly installed.
- 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.
- The nominal voltage of the thermostat must be the same one of the network.
- The socket-outlet 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.
- In class I product ground has to be connected according to the standard in force.
- Any contact with chemical products or alcohol including the liquid inside the radiator must be avoided.