

## TAE-N13 Electronic Room Thermostat

This room electronic thermostat (Fig. 1) is suitable for a reliable and accurate temperature regulation in commercial and industrial premises as well as for home installation. A manual selector (2) allows to select the desired function: cooling or heating.

### Features

- 230V~ (TAE-N13-MC) power supply
- Knob limitation feature through mechanical pins
- Fixing with distance between holes 60mm
- Compliant with directives EEC 89/336, 73/23 and 93/68 CE



Model Types	Model	Description
	<b>TAE-N13-MC</b>	Electronic Room Thermostat with Switch
<b>Technical Data</b>	Power supply	TAE-N13-MC      230V~ -15% +10% 50Hz
	Power absorption	1VA
	Regulation range	6°C...30°C
	Sensor type	NTC 4k7 ohm @ 25°C internal
	Remote sensor (optional)	Cod. STL NTP A150
	Contact rating	5 (1) A @ 250V~ SPDT
	Protection class	IP30
	Operating temperature	0°C...40°C
	Storage temperature	-10°C...+50°C
	Humidity limits	20%...80% rH (non condensing)
	Enclosure	Material: ABS V0 self-extinguishing Colour: Signal white (RAL 9003)
	Size	85W x 85H x 31D mm
Weight	~150 gr.	

**OPERATION**

When the device is in 'Heating' mode and the measured room temperature is below the value set through the knob the thermostat turns the relay on and, at the same time, turns the red LED (1) on for 'Heating'. When, on the contrary, it is at 'Cooling' mode and the measured room temperature is over the value set through the knob the thermostat turns the relay on and, at the same time, turns the red LED on for 'Cooling'.

**SET-POINT KNOB**

Through the set-point knob the user can set the desired temperature.

**INSTALLATION**

For installation of the device follow these steps:

1. Remove the knob by tilting it, eventually with the help of a screwdriver placed in the slot.
2. Remove plastic cover by moving to the inner side, through the use of a tool, the two plastic teeth (3) located on the right side of the thermostat (see Fig. 3 and 4).
3. Fix the thermostat base plate to the wall through the two screw holes with distance between axes of 60mm.
4. Make electrical wirings according to the diagram of Fig. 5.
5. Close the thermostat by carefully positioning the cover so that the LED matches the relevant hole and then by slightly pressing the cover in order to make the four plastic teeth snapping.

**KNOB ROTATION LIMITATION**

It is possible to limit the rotation range for the set-point knob by following these steps:

1. Remove the knob by tilting it, eventually with the help of a screwdriver placed in the slot.
2. Pick up the plastic pins (4) parked at one side of the knob area and set them (5) as in the example of Fig. 2. In this example the rotation range (6) is reduced as in the shown angle.

**SELECTION REMOTE SENSOR**

In order to connect to the thermostat a remote sensor (7) alternative to the internal one, follow diagram in Fig. 5 and remove the jumper on the thermostat board (Fig. 6), which is located in the bottom right side of the thermostat, underneath the set-point knob.



Fig. 1

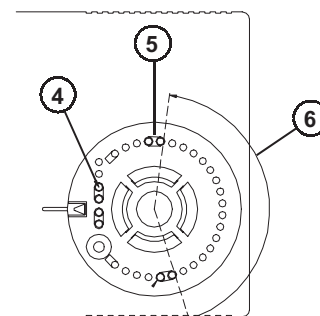


Fig. 2

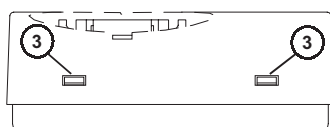


Fig. 3

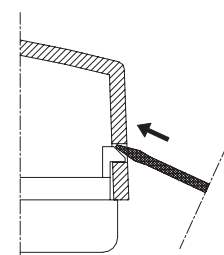


Fig. 4

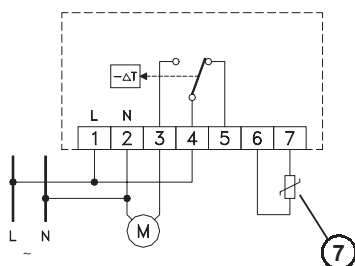


Fig. 5

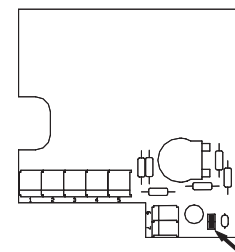


Fig. 6

**WARNING:**

To properly adjust room temperature, install the thermostat far from heat sources, airstreams or particularly cold walls (thermal bridges) and in horizontal position. When the remote sensor is used in conjunction with the thermostat, then this note is to be applied to the remote sensor itself.

For remote version all wirings must be made using wires with 1,5 mm<sup>2</sup> minimum section and no longer than 50m. Do not use same duct for signal wires and mains.

The appliance must be wired to the electric mains through a switch capable of disconnecting all poles compliant to the current safety standards and with a contact separation of at least 3mm in all poles.

Installation and electrical wirings of this appliance must be made by qualified technicians and in compliance with the current standards.

Before wiring the appliance be sure to turn the mains power off.

Notes: In the view of a constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice. The consumer is guaranteed against any lack of conformity for 24 months from the time of delivery, according to the European Directive 1999/44/EC. The full text of guarantee is available on request from the seller.

