



THERMOSTAT TC41 E

MECHANICAL

USER MANUAL

I - INTRODUCTION

Dear User:

Congratulations on choosing a **GV** thermostat. Please refer to this user manual before installing/using the thermostat.

This thermostat is used to control the temperature of heating cables or heating mats for electric underfloor heating in a given room, whether in a domestic, commercial or industrial environment.

While we try to provide the best device possible, we are always available for technical support. If you have any questions, please contact us.

II - TECHNICAL PARAMETERS AND MAIN CHARACTERISTICS

Technical parameters	
Voltage	AC 220V 50 ~ 60 Hz
Amperage	16A
Working environment	-5°C ~ 50 °C
Protection index	IP20
Temperature control precision	5°C ~ 40°C
Main characteristics	
Probe reading options	2 (internal or both)
External dimensions	86mm x 86mm x 23mm
Material	Plastic PC + ABS
Installation	Wall - inserted type

III - CAUTIONS FOR INSTALLATION



ATTENTION!

When being installed, this thermostat may cause an electric shock. Make sure the installation is done by a qualified electrician.

1. Installation should only be done when the electric supply is off, otherwise it can damage the thermostat and cause an electric shock.
2. Choose the most suitable location for installing the thermostat (about 1,60m above the floor). It must not be installed at eye level.
3. Installation should not be made at altitudes higher than 2000m above sea level.

IV - INSTALLATION

1. Remove the temperature regulator wheel using a screwdriver.
2. Use a star wrench and loosen the left screw (fig.1) to remove the panel and the inner frame from the base of the thermostat.
3. Follow the wiring diagram (fig. 2) to connect the power, the heating cable and the floor probe.
4. Use the two screws provided to fix the outer frame and the thermostat base to the preinstalled electrical box (fig. 3) and make sure it is properly installed.
5. Attach the inner frame and the thermostat panel to the base of the thermostat and tighten the screw that was removed in step 2 (fig.4).
6. Place the temperature regulator wheel. The installation is complete. Turn on the power to test the thermostat.

Fig. 1 - Thermostat opening

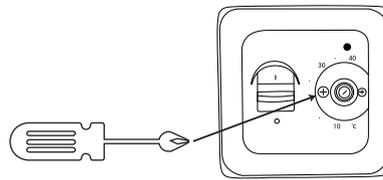


Fig. 2 - Wiring diagram

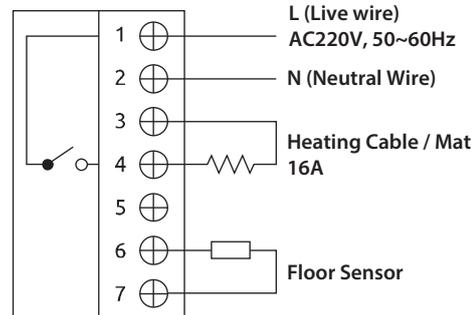


Fig. 3 - Installation in the electrical box

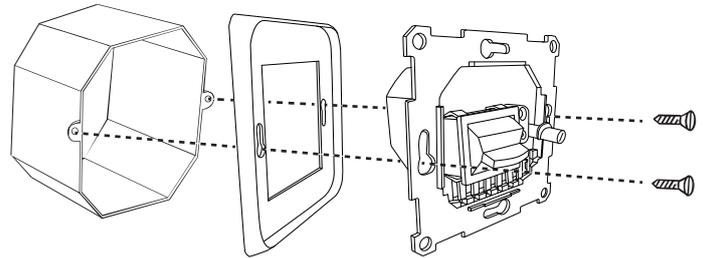
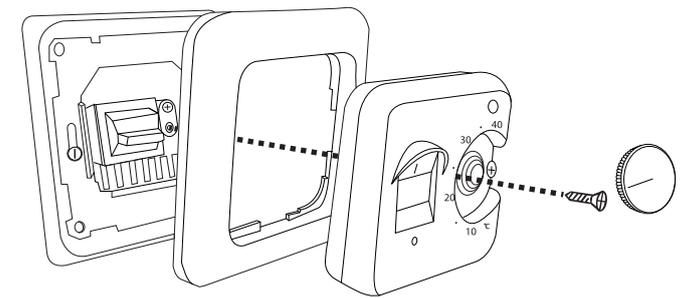


Fig. 4 - Finalize the Thermostat Installation

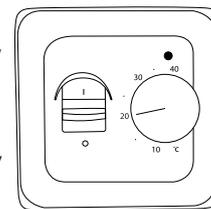


V - THERMOSTAT INTERFACE AND OPERATION

► On/Off

To turn On the thermostat, move the switch to position I.

To turn Off the thermostat, move the switch to position 0.



► Set the Temperature

With the thermostat on, turn the regulator to the desired temperature.

The LED will be on when the underfloor heating is heating up and off when the temperature is higher than the set temperature.

VI - SAFETY MODE

If there is an anomaly with the probes, the thermostat goes into safe mode. When this happens, the indicator LED will flash.

When working in safe mode, the thermostat only works for 3 minutes and switches off for 1 minute. Under these conditions, the heating temperature is limited to 80% of the set value.



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