



## THERMOSTAT BD06

SEMI-PROGRAMMABLE DIGITAL - WHITE

### 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 230V, 50-60Hz
Amperage	16 A
Working environment	0°C ~70°C
Consumption	<0.3 W
Protection index	IP20
Programmable temperature	5°C ~ 35°C
Temperature control precision	0.5 °C
Main characteristics	
Programs	3 daily, cyclic active scheduling
Probe reading options	3 (internal, external and both)
External dimensions	86mm x 86mm x 27mm
Material	PC + ABS
Screen background color	Blue
Memory in case of electrical failure	Time and schedules
Child lock	Yes
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. Separate the thermostat from the display using a screwdriver to press the groove at the back of the thermostat and pushing the display upwards (fig.1).
2. Follow the wiring diagram (fig. 2) to connect the power, the heating cable and the floor probe.
3. Use the two screws provided to fix the outer ring and the thermostat base to the electrician's deep box previously installed (fig. 3) and make sure that it is properly installed.
4. Attach the display to the four projections on the mounting plate and push it downwards (never press the LCD display directly). The installation is complete. Turn on the power to test the thermostat.

Fig. 1 - Thermostat opening

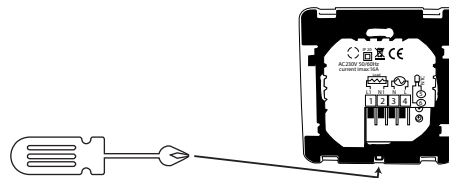


Fig. 2 - Wiring diagram

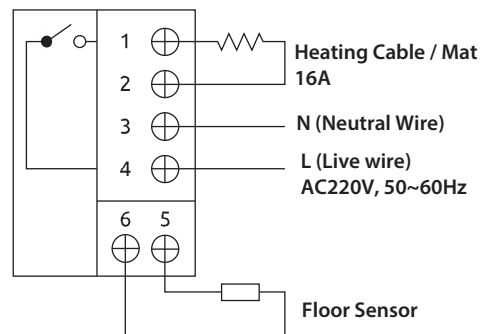
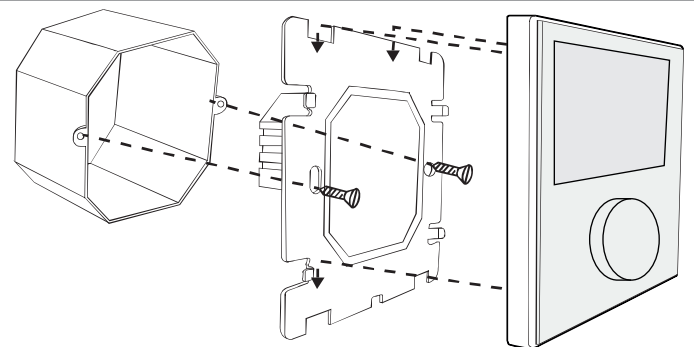
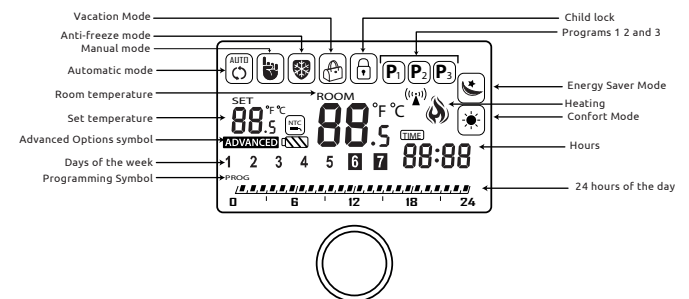


Fig. 3 - Thermostat Installation



#### V - THERMOSTAT INTERFACE



##### Funções dos botões

	Switch on / off thermostat. Press for 3s to activate / deactivate child lock
	Rotate clock wise Increases the Value, Rotate in the opposite direction Decreases Value
	Fast Press Confirms the option (Enter key) Pressing for 3s, when released, enters settings mode

#### VI - THERMOSTAT PROGRAMMING

##### » ON / OFF

Press the button to turn on the thermostat (located on the right side of the thermostat).

Press the button again to turn off the thermostat and cut the power to the heating cable or network.

##### » SETTING THE TIME AND DAY OF THE WEEK




With the thermostat on, press the button and release after 3 seconds to enter the settings mode.

Turn the knob until the symbol **TIME** flashes and short press the button to enter the Hour and day of the week settings.


Rotate the knob to set the minutes and confirm with a short press on the same button, after the minutes the hours follow with the same procedure.


After setting the hours and pressing the button , you will see the days of the week flash ( 1 2 3 4 5 6 7 ). 1 represents Monday, 6 represents Saturday and 7 represents Sunday. After setting the day of the week, press the button again to exit the menu and wait 5 seconds to exit the settings mode.

### » SWITCH BETWEEN MANUAL AND AUTOMATIC MODE





With the thermostat on, press the button  quickly to switch between manual  and automatic  mode.



### » SET TEMPERATURE IN MANUAL MODE

With the thermostat turned on in manual mode, turn the knob  to set the desired temperature.

The thermostat turns on when the probe temperature is lower than the one set at 1.5°C and the symbol  appears on the screen. This symbol means that the cable or network is heating up. The thermostat switches off when the probe temperature is higher than the one set at 1°C.

### » PROGRAMMING ENERGY SAVING MODE / COMFORT MODE


With the thermostat on, press the button  for 3 seconds to enter the settings mode. Choose between the Energy Saving  option or the Comfort  option and press the button  quickly to enter the selected option.


Rotate the knob  to select the desired temperature for the selected mode and quickly press the button  to return to the settings menu.

Wait 5 seconds to exit the settings menu.

### » DAILY SCHEDULES P1 P2 and P3





With the thermostat on, press the button  for 3 seconds to enter the settings mode. Select the symbol  and quickly press the same button.

It will start at schedule 1 at 00:00, you must turn the button  to select between Energy Saver mode and Comfort mode.



Pressing the button  again will switch to 01:00, 02:00 ... until 24:00. After 24h of program 1, it will go to 00h00 of program 2 and then program 3. The settings of the 3 programs are defined.

These programs will run in a cycle, if you choose P1 it will repeat every day.

### » SELECT PROGRAMMING FOR AUTOMATIC MODE

With the thermostat on, press the button  for 3s to enter the settings mode. Select the symbol corresponding to the desired programming, , ,  and quickly press the same button. Quickly press the button again to return to the settings menu and wait 5 seconds to exit the settings menu. The selected program symbol will appear on the display.

### » VACATION MODE



With the thermostat on, press the button  for 3s to enter the settings mode. Select the symbol  and quickly press the same button. it will define the number of days it will be absent and after pressing the button again it will define the temperature at which the system will work.

Wait 5 seconds and the symbol  will remain on the display.

Pressing the button will alternate between the number of days and the desired temperature without leaving the vacation mode.


To cancel the vacation mode, go to the settings mode and select automatic or manual mode.

### » CHILD LOCK

Regardless of whether the thermostat is on or off, press the side button  for 3s. When you release the button, you will see the symbol  on the display indicating that the thermostat is locked.

Repeat the same procedure to unlock the thermostat.

## VIII - ADVANCED SETTINGS

Enter settings mode and select the symbol  to enter advanced settings, turn to move to the next function.

### » GENERAL FUNCTIONS TABLE

A1	Correction of temperature reading
A2	Floor probe limit temperature
A3	Child lock: Partial, Total;
A4	High temperature limit of the floor probe
A5	Ambient probe low temperature limit
A6	Minimum temperature correction of the ambient probe
A7	Programmable maximum temperature limit
A8	Non-programmable options
A9	Anti-freeze function
AA	Memory (0 - on; 1 - Off)
AB	Temperature Unit (°C / °F)
AC	Descaling function (not applicable)
AD	Probes (N1 - room, N2 - floor, N3 - both)
AE	Restore Factory Settings

## VII - ERROR TABLE

Error	Cause	Solution
ERR	Floor probe error	Replace floor probe



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