GREENBROOK
ELECTRICAL PLC

# INSTALLATION / OPERATING INSTRUCTIONS FOR DIGITAL THERMOSTAT TH1-C

You have acquired the latest microprocessor controlled thermostat to reduce your heating bill. It is made to be user friendly and easy to use.

## SAFETY INSTRUCTIONS

**Please read these instructions fully before attempting installation.**
**IF IN DOUBT, INSTALLATION SHOULD BE MADE BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH CURRENT WIRING REGULATIONS.**

## GENERAL

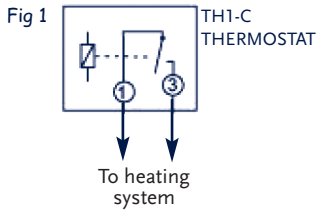
The TH1-C digital thermostat is battery operated and it can therefore replace any mechanical standard 2 wire thermostat. Please however note that the maximum resistive load is 5A.

## INSTALLATION

**Note that if you connect the thermostat to a 230VAC system, please make sure the power is switched off and if in doubt consult a qualified electrician.**
If you have a mechanical thermostat connected with 2 wires just remove the old thermostat and replace it with the TH series. Connect the 2 wires to the terminals as Fig 1 shows, then put the batteries in and close the thermostat. See below.

If this is a thermostat for a new system you must install a 2 wire cable to heating system (see Fig 1).

Fig 1




1. You should place the thermostat as following:

   a. About 160cm up from the floor.
   b. Only on inside walls (not on an outside wall).
   c. Do not expose to direct sun light.
   d. Do not position close to a heater, ventilation outlet or close to an outside door.

2. Remove the front cover.
   Unscrew the screw in the battery compartment.
   Remove the front housing from the base. (see Fig 2.1)

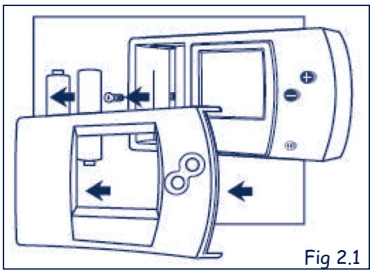


Fig 2.1

3. Unscrew the screw in the protective cover and remove the protective cover (See Fig 2.2).

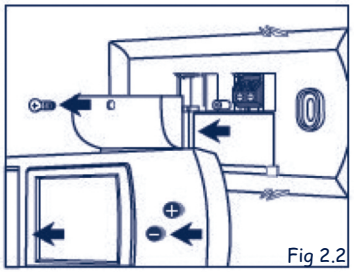


Fig 2.2

4. Mount the base on the wall and make sure the hole on the wall is covered by the base with the wires coming in through the protective cover hole. (See Fig 2.3)
   Loosen the screws of the terminal block and install the wires into the terminals. (see Fig 1)

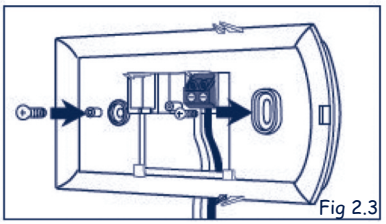


Fig 2.3

5. Replace the protective cover on to the base and lock the cover with the screw.

6. Put the front housing back to the base and lock the front housing with the screw.

7. Install 2 AA size batteries into the battery compartment.

8. Press the RESET key once and make sure the display shows room temperature and set temperature

9. When the thermostat is first filled with batteries or after a battery change press RESET button.

The LCD shows set temperature 20°C and actual room temperatures.

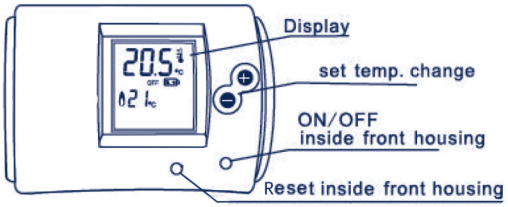



Fig 3.1

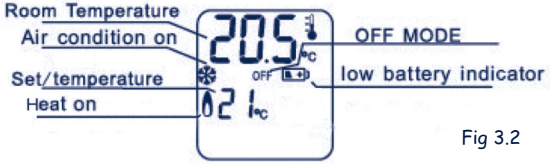



Fig 3.2

## Keys

The thermostat has the following keys and display, see (Fig. 3.1, 3.2).

⏻ Key ON/OFF (inside front housing) with this key you can turn off the thermostat or turn it on to Normal mode. When the thermostat is turned off. "off" will show in the display and you will see the room temperature. If the thermostat is in Normal mode you will see the Set temp and the room temp in the display.

⊕ or ⊖ keys
If you want to increase the Set temp just press ⊕
If you want to decrease the Set temp just press ⊖
You can see this on the display.
Reset, operate after battery change

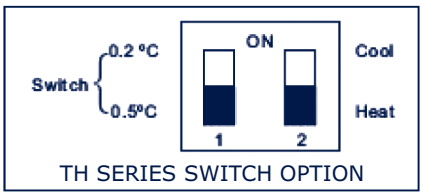
## OPERATION

As soon as the batteries are installed the thermostat will keep the room temperature at 20°C. Use the ⊕ or ⊖ keys to increase or decrease the temperature.

### User Optional Selection:

On the back of the front housing, there is a DIP SWITCH on the PCB where the user can selection following option:

DIP SWITCH 1 - SWING CYCLE - ON = 0.2°C
OFF = 0.5°C




TH SERIES SWITCH OPTION

DIP SWITCH 2 - HEAT OR COOL SYSTEM SETTING

ON = COOL
OFF = HEAT

FACTORY SETTING: SWING CYCLE - OFF = 0.5°C
SYSTEM OFF = HEAT

## TECHNICAL DATA

| | |
|---|---|
| **Temperature range:** | 5-30°C |
| **Differential:** | +/- 0.5°C from set temperature. |
| **Batteries:** | 2 x AA (1.5VDC) size batteries (Alkalin Recommended) |
| **Rated switching power:** | 230V, 5A resistive load and 2A Inductive load |
| **Minimum on time in heating mode:** | 1 minute |
| **Minimum off time in cool mode:** | 3 minutes |
| **Battery Low:** | Thermostat will turn off and low battery indication will show on display. |

**GUARANTEE**

**Your Digital Thermostat is guaranteed for 12 months.**
Each unit is individually tested before leaving the factory.

***PLEASE KEEP THESE INSTRUCTIONS SAFE FOR FUTURE REFERENCE***

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