

# Room temperature sensor with display

For heat pump and boiler



## Notice technique d'installation

Room Temperature Sensor  
Ref. 751009

Manual ref: 1899252  
Edition n°: 24.20

### 1 - Introduction

The interactive room temperature sensor enables you to control the temperature in the heating area where it is installed. It must be installed in heating area n° 1 if it is being used with the Heat Pump.



• Do not connect this sensor to other appliances.

• Never use a 230V power supply with the sensor.

In addition to this, it also enables the user:

- to be informed, in the room concerned:
  - of the effective temperature,
  - of the heating mode requested by the control
  - which modes are in effect, such as standby, holiday mode or summer mode
- to choose and modify:
  - the desired room temperature,
  - the heating mode to be applied to the relevant area or to all of the heating areas.

### 2 - Installation

The room temperature sensor should be positioned at 1.5m above ground level.

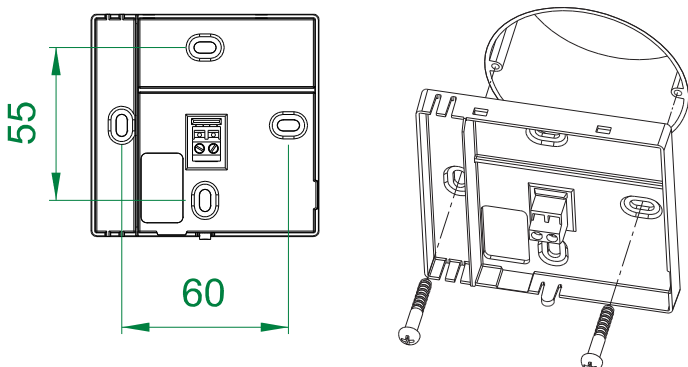
The room temperature sensor must be placed on an interior wall which is not an exterior wall on the other side.

Do not position the room temperature sensor too close to a window, a curtain or a door.

Do not place the room temperature sensor above a heat source such as a radiator or fireplace, or in a place where it is exposed to strong sunlight or artificial lighting.

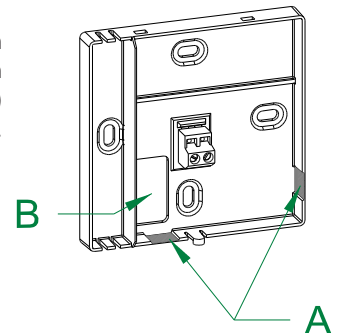
Check that the pipe where the cable passes is airtight.

#### 2.1 - Wall fitting



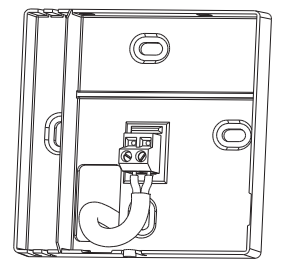
#### 2.2 - Routing the cable

Pass the two-wire cable through the hole at the back (B) or through one of the holes on the side (A) which are on the fixed connector.



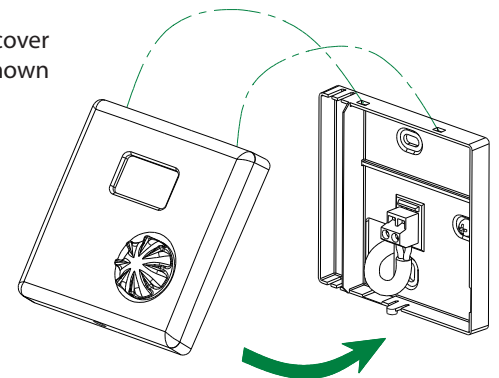
#### 2.3 - Connecting the 2-wire bus cable

The bus link with the pilot or the boiler is made with a non-polarised 2-wire cable. The maximum connection length is 30m. Connect the 2-wire cable to the connector on the wall box (no polarity).



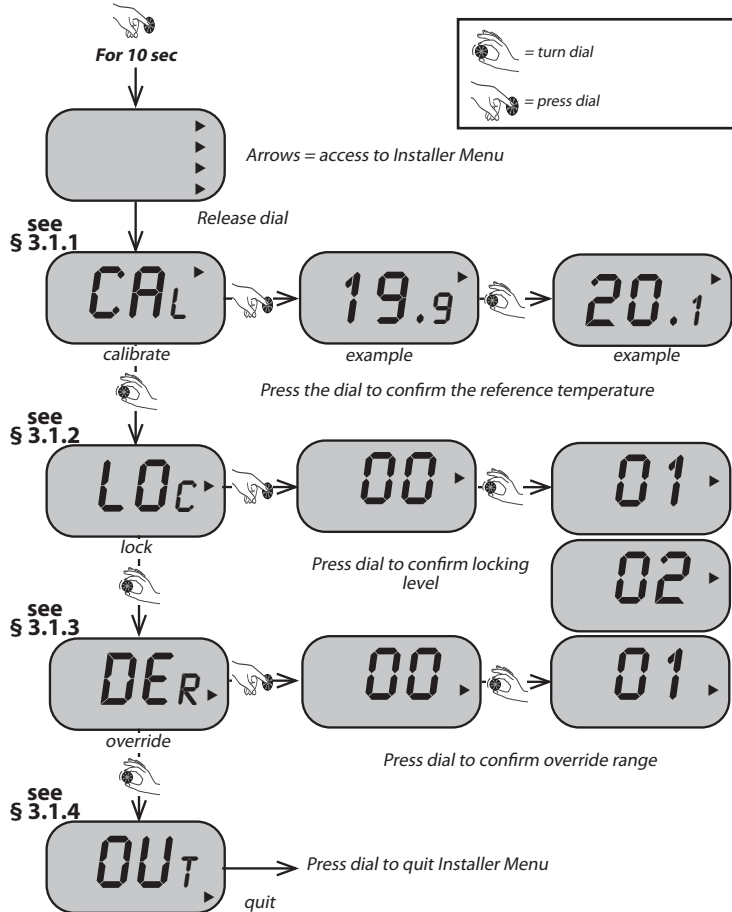
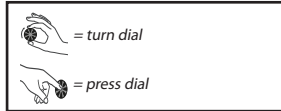
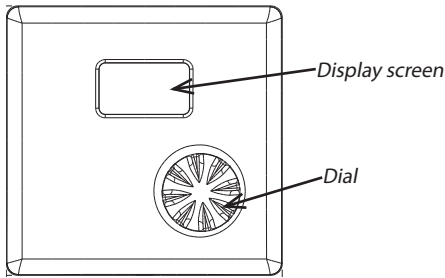
#### 2.4 - Closing the box

Hook and slot the cover back into place as shown on the diagram.



## 3 - Configuration

### 3.1 - Configuration and settings for the room temperature sensor (sensor Installer Menu)



#### 3.1.1 - Calibrating the room temperature sensor

- To correct the room temperature sensor reading. If the position of the room temperature sensor causes a discrepancy between the real room temperature and the temperature read by the sensor, it can be rectified by adjusting the sensor.
- Place a thermometer in the middle of the room where the room temperature sensor is, as a reference.
  - Take care to close the windows and not to touch the room temperature sensor casing, which could make it warmer (use just the dial for operating).
  - Wait for the room temperature to stabilise.
  - Read the temperature indicated on the monitor.
  - Adjust the **CAL** setting to match the reference temperature.

#### 3.1.2 - Locking level

The locking level you determine will prevent accidental or untimely modifications of certain settings:

Meaning of setting:

**00 = No locking**

**01 = Locking level 1**

- prevents: - adjusting the target room temperature (this can be adjusted on the pilot or the boiler)
- allows: - overriding heating modes
- the room temperature reading to be displayed

**02 = Locking level 2**

- prevents: - adjusting the target room temperature (this can be adjusted on the pilot or the boiler)
- overriding heating modes
- allows: - the room temperature reading to be displayed

#### 3.1.3 - Override range

Apply or dismiss the override settings from one heating area to other areas of the installation.

Meaning of setting:

**00** = The override will only apply to the circuit which is equipped with the room temperature sensor (circuit 1 for the pilot)(circuit 1 or 2 for the boiler)

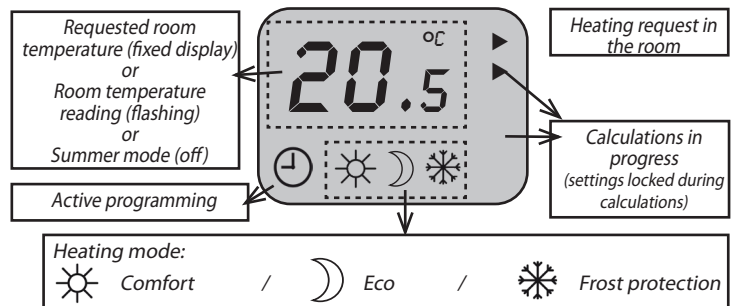
**01** = The override will apply to all circuits, including the domestic hot water circuit and except for the swimming pool circuit.

#### 3.1.4 - Quitting the Installer Menu

- To quit the installer menu, turn the dial to "OUT" and confirm by pressing the dial.

## 4 - User

### 4.1 - Display screen



Programming / overrides:

- ☀ / 🌙 / ❄ = Programmed heating mode
- ☀ / 🌙 / ❄ fixed = Permanent override
- ☀ / 🌙 / ❄ flashing = Temporary override



**Heat pump or boiler non-functional:**  
All functions are stopped. The heating circuit is frost protected, but the air in the room is not.

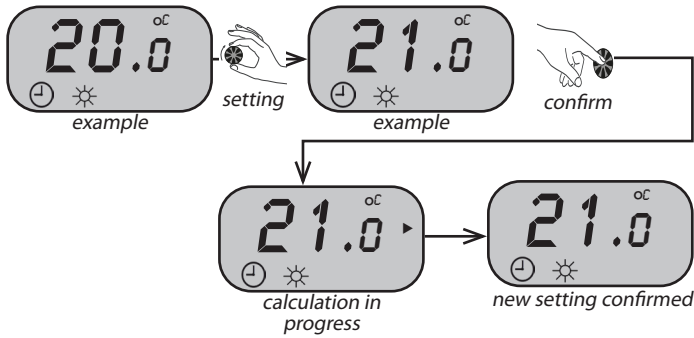


**Heat pump or boiler in Holiday mode:**  
All functions are stopped. The air in the room is kept above 0°C (frost protection). Normal operation resumes automatically at the end of the period programmed into the pilot or the boiler.



Temperature requested is not displayed.  
**Heat pump or boiler in summer mode:**  
Heating, domestic hot water and / or swimming pool heating are stopped, depending on your configuration.

#### 4.2 - Setting the target temperature for the room



**Note:** • If the "°C" symbol is flashing it indicates that the target temperature is being adjusted.

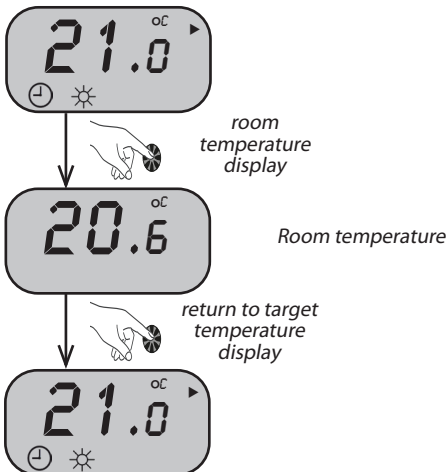
- An arrow appears after confirmation to indicate that the new target temperature is being electronically processed. It is not possible to access other settings while calculations are in progress.
- As soon as the arrow disappears the sensor will function normally again.

**N.B:** The target temperature which is modified is that of the heating mode which is in progress (either programmed or as an override). This setting does not modify target temperatures for other heating modes.

To modify the target temperature for another heating mode, this mode must be called up as an override (see § "Override programmed heating mode"). Setting the target temperature is done in exactly the same way.

The override can then be cancelled, the change in target temperature for this heating mode is registered and will apply when programming requests this heating mode again.

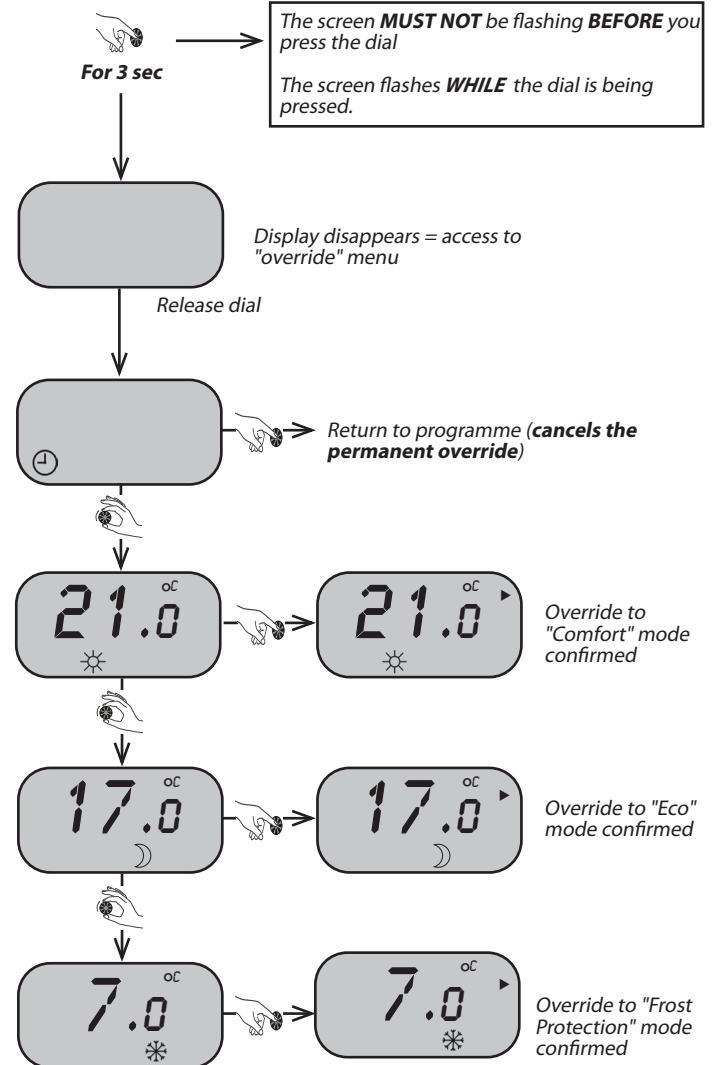
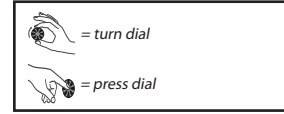
#### 4.3 - Display room temperature reading



Unless the dial is pressed, the normal screen display will resume automatically after 30 seconds.

#### 4.4 - Permanently overriding a programmed heating mode

Permanent override means that the heating mode requested by the user will be applied in place of the programmed heating mode. The override will only stop when the user cancels it.



## 5 - Error messages

**ERR**

### **Pilot or boiler error**

Look on the Pilot or boiler display screen to see what type of error has occurred

**ESA**

### **Room temperature sensor error**

The sensor inside the box is defective. If it does not seem possible to repair it, the electronics board in the box must be changed.

**TRA**

### **Communication error between the sensor and the pilot electronics board**

Check the condition and the connection of the 2-wire cable which connects the sensor to the pilot.

**PAR**

### **Error in pilot or boiler settings**

- **Pilot:** Go to the configuration menu and set the room temperature control on "ROOMSENSO".

- **Boiler:** go to the circuit configuration menu and set the room temperature control to "sensor with display screen" (see § "Circuit configuration" in the boiler Installer Instruction Manual).



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