

DRS1 DIGITAL ROOM THERMOSTAT

Overview

The DRS1 is a 230V Digital Room Thermostat that offers a 4°C Night SetBack (NSB) function when used in conjunction with a time switch.

An optional external sensor can be wired to the thermostat which can then be used to limit the floor temperature to 27°C and in this mode, the external sensor is used in conjunction with the thermostat's internal sensor.

Alternatively, the thermostat can be configured so that only the external sensor is used – this is often required in wet areas such as bathrooms, where the 230V thermostat is positioned outside of the bathroom and the thermostat's external sensor is within the wet area.

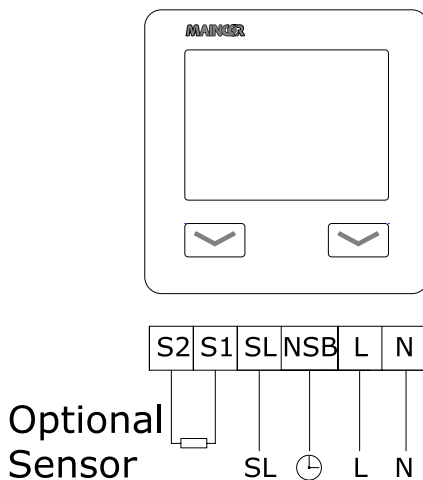
The thermostat can be locked making it ideal for public places.



Features

- Easy operation via two buttons
- Automatic 4°C Night SetBack via time switch
- Factory set 27°C floor limit feature for protection of vinyl or timber floors (additional sensor required)
- Remote sensing mode available (additional sensor required)
- Large backlit (adjustable) LCD display
- The thermostat is adjustable in 0.1°C increments allowing for accurate control over the room temperature and improved comfort for the occupant
- Tamper proof – the thermostat is lockable via buttons

Wiring Schematic



Installation

The thermostat should be positioned 1.5m above the floor level away from direct sunlight, other heat sources and cold draughts and should be fitted in a standard 35mm back box. The installation must be carried out by a qualified electrician and comply with local installation regulations.

- 1) Remove the front face of the thermostat from the back plate by removing the screw from the bottom of the thermostat using a Phillips screwdriver.
- 2) Make the connections as per the wiring diagram.
- 3) Screw the thermostat's back plate on to the back box and then replace the thermostat's front fascia.
- 4) Replace the screw into the bottom of the thermostat.

Operation – Locking the Thermostat

- 1) Hold both the up and down buttons together for 10 seconds until number 5 appears on the screen.
- 2) Continue to hold the two buttons while the thermostat counts down from 5 to 0.
- 3) The thermostat will lock to prevent any adjustment and the unit will display OFF.

If you press one of the buttons whilst the thermostat is locked, the screen will flash OFF to indicate that the thermostat is in its locked mode.

To unlock the thermostat, repeat the process and the screen will show ON.

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Adjust the Backlight

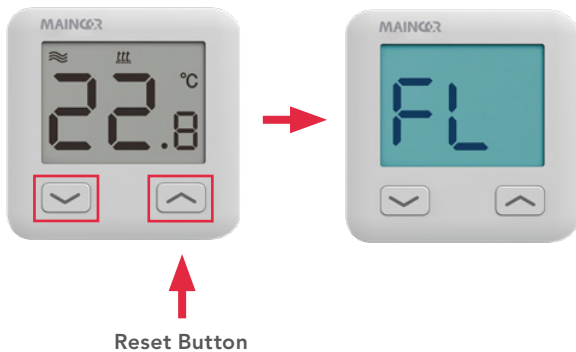


- 1) Hold both the up and down buttons together for 10 seconds until number 5 appears on the screen.
- 2) Use the up and down buttons to select the preferred level of backlight (L0 is off and L4 is the brightest available).
- 3) Wait for the thermostat to revert to normal operation following selection.

External Sensor Configuration

Connections are available to fit an external sensor (code: SP-03) if required. **The thermostat is supplied in a floor temperature limiting mode.** This means that if the floor reaches 27°C, regardless of the room temperature, the thermostat will stop sending a demand signal to the wiring center thus ensuring the flow of water to the UFH circuit is stopped and the floor temperature, can no longer increase. If this happens, the heat demand indicator on the left-hand side of the LED will flash.

In some circumstances, **remote control of the external sensor is required.** For example, when heating a bathroom, the thermostat should be mounted outside the heated area and an external sensor should be ran into the bathroom. The external sensor can be fitted in the floor to control the floor surface temperature, or alternatively, it can be mounted within a sensor housing to allow remote control over the bathrooms air temperature. When in this mode, if an external sensor isn't fitted, the thermostats screen will display the error code 'E1'.



To change between the two modes of operation, follow the process below:

- 1) The thermostat has a reset button situated on the bottom right of the thermostat. Hold both the up and down buttons and using a paperclip (or similar), press the reset button. Continue to hold the two buttons until 'FL' appears on the screen.
- 2) Use the up and down buttons to switch between the two modes.
- 3) Wait for the thermostat to revert to normal operation following selection.