

# **THERMALSURFACES**

Surface Heating & Cooling Specialists

## **CONTROLS**

### **24V SELV UNDERFLOOR HEATING CONTROLS**

#### **FH-WC 24V WIRING CENTRE**

The FH-WC 24V wiring centre can control up to 10 room thermostat zones and has 2 relays to control the circulation pump on the distribution manifold set and an interlock relay with the boiler or heat source to demand hot water for the underfloor heating system and allow the boiler or heat source to switch off when there is no demand from the underfloor heating. The FH-WC 24V wiring centre can be connected to a 230V power supply and has a built-in 230V/24V step down transformer for connection of 24V room thermostats and 24V thermal actuators to control the individual circuits on the distribution manifold set.



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The Thermal Surfaces 24V SELV standard range of room thermostats can be connected to optional floor sensors to control the floor temperature as well as the air temperature. All of the standard room thermostats are a safe electrical low voltage of 24V and they feature a night set-back facility that can be time-control enabled so that when the underfloor heating time control has switched 'off' the underfloor heating the room thermostat will still maintain a room temperature 4°C lower than the set-point of the room thermostat. This will ensure that when the underfloor heating time control switches the underfloor heating back 'on' in the morning for example, the room temperature reaches a comfortable day-time temperature in a reasonably short period of time.

Image of FH-WS Standard dial room thermostat with temperature range limitation.

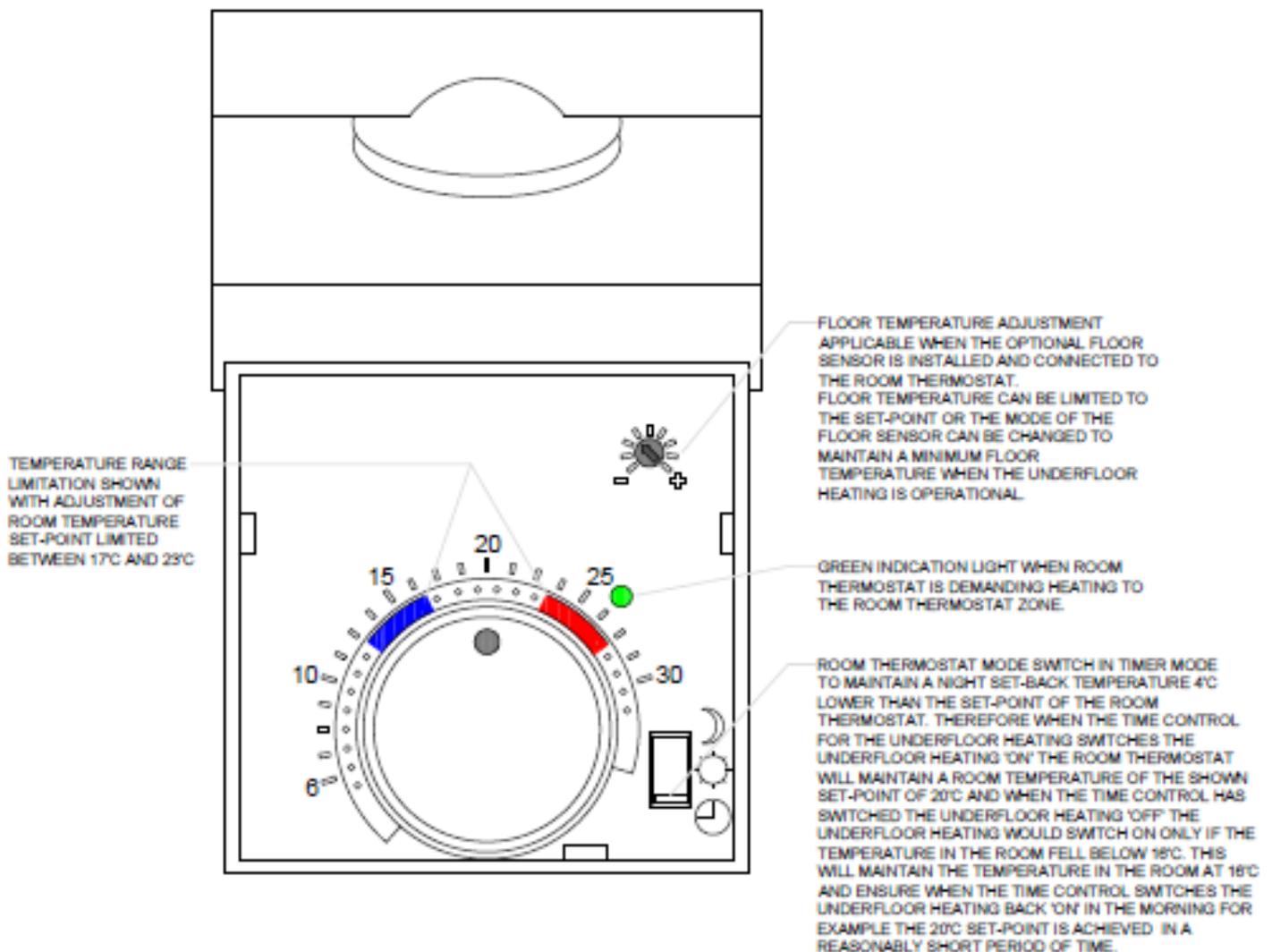


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Diagram of FH-WS Standard dial room thermostat with temperature range limitation.

## FH-WS ROOM THERMOSTAT



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Image of FH-WP tamper proof room thermostat.



The FH-WP tamper proof room thermostat has all the features of the FH-WS room thermostat with a tamper proof cover to prevent nuisance adjustment in public areas.

Image of optional RET2000B digital display room thermostat.



The RET2000B is a battery operated digital display room thermostat with a large temperature display, touch sensitive back lit display and heating 'on' indicator. It can be used as an optional room thermostat to be connected to the 24V SELV FH-WC wiring centre. It is air temperature sensing only and requires an additional tamper proof night set-back sensor if a night set-back facility is required.