

**MTC-1991-WU**– this electronic thermostat is mounted in a standard flush box. The red LED shows that the heat is ON. An ON/OFF selector switch on the front of the cover makes system operation extremely simple. This thermostat with a remote sensor is recommended for the control of floor heating systems and is designed to meet the standard requirements for comfort, safety and energy saving when using electric radiant floor heating.

### Mounting of Floor Sensor

The floor sensor should be placed in between two runs of heating wire. Make sure it is centred so as to achieve the best accuracy. Make sure the position of this sensor is in an area of the floor that will not be covered over with any items that will cause a heat build up which could result in the overall floor temperature being affected i.e. washing baskets, rugs etc.

### Thermostat installation

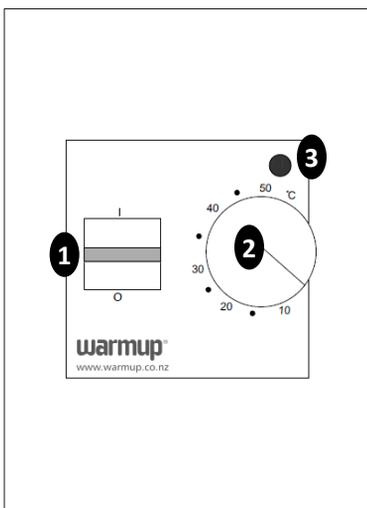
This should be done by a registered electrician ONLY. The thermostat is to be mounted on a wall so that it is easily accessible. The floor sensor should not be influenced by any other heating sources (i.e. the sun).

- Remove the thermostat knob, noting the position A
- Loosen screw to remove frame and cover B
- Attach wiring from the rear of the thermostat according to the wiring diagram.
- The thermostat is mounted in a standard single gang electrical box. Please ensure that the adaptor plate is properly clipped on the thermostat.

Re-install frame and cover

Re-install the knob in the proper position

### Operation Manual



- 1** On/Off  
I – On O – Off
- 2** Temperature setting  
10 – 50°C
- 3** Indicator  
The light is red when the heat is On.

### Temperature Setting

The thermostat has a scale range of 10-50°C. To assist this adjustment, the thermostat has a LED which will glow RED when the heating is ON. The thermostat should be set to the maximum temperature setting until the desired temperature of the room or floor is achieved. The control knob should then be turned back until the LED goes out. Fine adjustments can be made over the next few days to suit individual requirements.

### Max/Min Temperature Setting

Behind the knob there are red and blue locking rings held in position by a screw. To set the limitations, loosen the screw (C) and adjust the red limit ring to the desired maximum, set the blue ring to the desired minimum temperature, then retighten the screw, The knob must be re-installed exactly as it was removed.

### Warning

**The system must not be energized unless the system is installed according to the instructions and the installation meets all applicable codes. Warranty is void if not installed according to this instruction manual and proper procedure.**

**Caution: Disconnect all electrical power prior to installing or servicing this unit.**

### Error Detection

**The MTC-1991-WU has built-in error detection which will de-energize the heating circuit if the sensor is damaged or if it detects an open or shorted sensor circuit.**

### Technical data

**Power supply:** 230-240V AC ±10%, 50Hz

**Output relay, SPST (resistive load):** 16A

**Built-in switch:** 2 pole, 16A

**Ambient operating temperature:** 0-50°C

**Scale limitation:** minimum and maximum

**Scale range:** 10-50°C

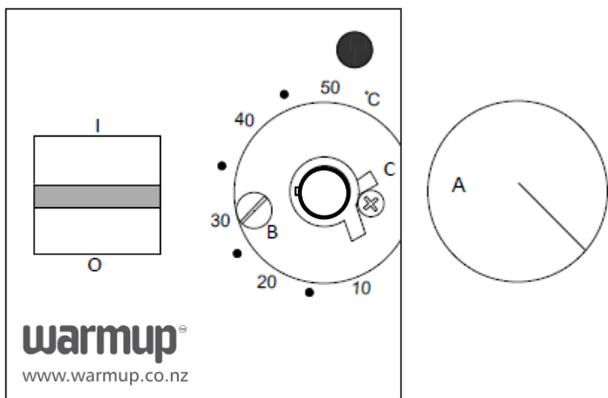
**Temperature setback:** not available

**On/Off differential:** 0.4°C

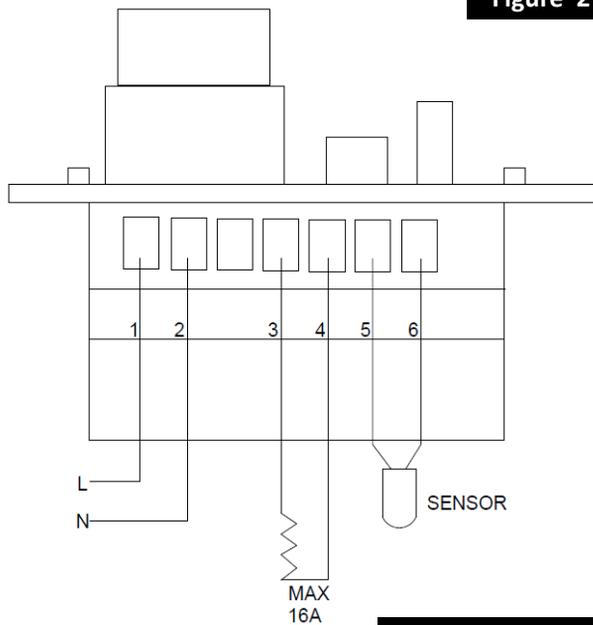
**Enclosure:** IP20

**Dimensions:** 115mm(h) x 84mm(w) x 50mm(d)

**Figure 1**



**Figure 2**



**With floor sensor**