

MTC Operations Manual

A Comfort Heat floor heating system has been installed in your floor. Under floor heating will warm from the floor up giving you unparalleled feeling of comfort. This heating system is controlled by an electronic thermostat that uses a floor sensor for optimum temperature control.

PROIR TO TURNING ON

The sub-floor and screed have to be fully cured before turning the heating on. For sand & cement screeds you must wait at least 3 weeks before turning on. With Ultra-thin installations, you must wait 2-3 days for the tile glue to cure. When turning on the floor for the first time, increase the floor temperature gradually over 2-3 days.

PRODUCT WARRANTY

TILE CABLE - 10 years SLAB CABLE - 10 years CARPET MATS - 5 years TIMBER MATS - 5 years THERMOSTAT & SENSOR - 2 years

SUGGESTED TEMPERATURE SETTINGS

BATHROOM - 24 ~ 28°C LARGE TILED AREA - 21 ~ 22°C CARPET - 19 ~ 21°C TIMBER - 24°C SLAB - 21°C

The MICROTEMP RANGE of electronic thermostats are specifically designed for underfloor heating systems. The thermostat is vertically mounted and has a 2pole isolator with 16A output relay.

MTC - The MTC thermostat is a manual thermostat. You simply switch it on, and set the desired temperature. When the red light is on, the floor is heating. If there is no light, the floor is either off or at selected temperature. A flashing light means there is an error.



TECHNICAL DATA

Supply Voltage: 240Vac, 50/60hz
Output Relay: 16A SPST, 3600W max

Switching Differential: 0.4 degC
Built-in Switch: 2 pole 16A
Temperature Range: 0/+50 degC
Housing/protection: IP20 & IP21

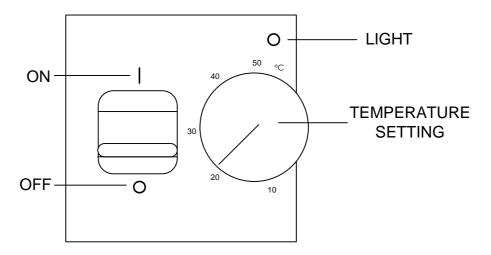
Dimensions (HxWxD): 115mm x 84mm x 58mm

Sensor Length: 3m Warranty: 2 years

Mounted: Vertically/Flush mounted

Comfort Heat Australia Pty Ltd www.comfortheat.com.au sales@comfortheat.com.au p: 02 9979 8600 f: 02 9979 7706

Operation of MTC Thermostat



<u>Temperature Settings</u>

MTC has a temperature range of 0 to 50°C

<u>Light</u>

The light indicates when the floor is drawing power (heating). When the red light is **OFF** this indicates that the floor is at set temperature and will only switch back **ON** once the floor drops 1°C below set temperature.

<u>Set Up</u>

Adjust temperature dial to desired floor temperature and switch on.

INSTRUCTIONS

Type MTC with air sensor or floor sensor

67303 06/14 - (LOA)



English

MTC is an electronic heating thermostat designed to be vertically installed in a standard electrical wall box. Once installed, it requires no maintenance.

An LED illuminates to indicate "call" for heating, this also aids in system testing. An ON/OFF interrupter on the front of the cover makes system operation extremely simple.

PRODUCTS

Type Product
MTC-1991 with floor sensor
MTC-1999 with built-in air sensor

CLASSIFICATION

The product is a class II device (enhanced insulation) and the product must be connected to the following leads,

Term. 1: Phase (L) 230 V ±10%, 50/60 Hz

Term. 2: Neutral (N)

Term. 3–4: Load max. 14 A, 3.200 W

WARNING

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

TECHNICAL DATA

Power supply 230 V AC ±10 %, 50-60 Hz
Output relay, SPST (resistive load) 14 A
Built-in switch 2 pole, 14 A
Ambient operating temperature 0-50 °C
Scale limitation minimum and maximum
Scale range
Temperature setbacknot available
On/Off differential 0.4 °C
EnclosureIP21
Dimensions (HxWxD)115x84x50 mm

MOUNTING OF FLOOR SENSOR

The floor sensor is used for temperature regulation in floor surfaces. For easy replacement the sensor can be mounted in a tube which is placed between 2 heating cables. The tube is ended towards the floor surface and sealed. If required, the sensor cable can be extended up to about 100 m with a standard installation cable. 2 leads in a multi lead cable, which is used as supply cable for the heating cable, must not be used. Voltage signals may occur which may

disturb the thermostat function. If a screened cable is used, the screen must not be earthed but must be connected to terminal 6.

PLACEMENT OF THERMOSTAT WITH BUILT-IN AIR SENSOR

The thermostat is to be mounted on the wall with free air circulation around it. Furthermore it has to be placed where it is not influenced by any other heating sources (e.g. the sun), draft from doors or windows, or by the temperature of an exterior wall.

ERROR DETECTION

The MTC 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.

CAUTION!

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

THERMOSTAT INSTALLATION (FIG. 1-2)

- Remove thermostat knob, noting the position (A).
- Loosen screw to remove frame and cover (B).
- 3. Attach wiring from the rear of the thermostat according to the wiring diagram.
- The thermostat is mounted vertically in a standard single gang electrical box. Please note that the adapter plate is properly clipped on the thermostat.
 - re-install frame and cover
 - re-install the knob in the proper position

MAXIMUM/MINIMUM TEMPERATURE LIMITATIONS

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 reinstalled exactly as it was removed.

Installation of the thermostat and adjustment of the max and min temperature adjustment must be done by an authorised electrician.

CE MARKING

According to the following directives: EN 61000-6-2, EN 61000-6-3, EN 60730-1 and EN 61730-2-9.



ENVIRONMENT AND RECYCLING

Please help us to protect the environment by disposing of the packaging in accordance with national regulations for waste processing.

RECYCLING OF OBSOLETE APPLIANCES



Appliances with this label must not be disposed of with general household waste. They must be collected separately and disposed of in compliance with local regulations.

Fig. 1

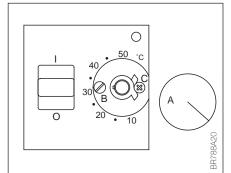


Fig. 2

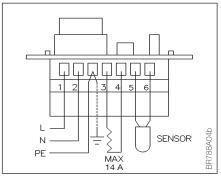


Fig. 3

nsor	
Value (ohm)	
64000	
38000	
23300	
14800	
9700	A08
	3R929A08
	Value (ohm) 64000 38000 23300 14800

OJ ELECTRONICS A/S

Stenager 13B · DK-6400 Sønderborg
Tel: +45 73 12 13 14 · Fax: +45 73 12 13 13
oj@ojelectronics.com · www.ojelectronics.com