

# 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 $\pm$ 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 installed according to this instruction and proper procedure.

#### TECHNICAL DATA

Power supply	230 V AC $\pm$ 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	10-50 °C
Temperature setback	not available
On/Off differential	0.4 °C
Enclosure	IP21
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)

1. Remove thermostat knob, noting the position (A).
2. Loosen screw to remove frame and cover (B).
3. Attach wiring from the rear of the thermostat according to the wiring diagram.
4. 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 re-installed 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

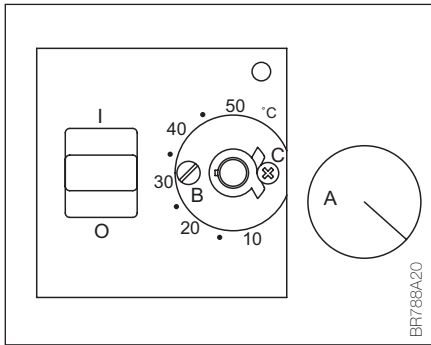


Fig. 2

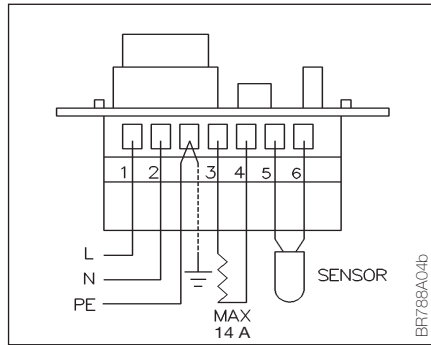


Fig. 3

Sensor	
Temp.(°C)	Value (ohm)
-10	64000
0	38000
10	23300
20	14800
30	9700

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