

INSTRUCTIONS

Manual Thermostat

57431 - 03/07 (BJ)



Electronic thermostat for fitting into standard wall box. The thermostat is adjustable to required temperature from +5/+40°C. The LED shows that the heat is ON.

CE MARKING

This product meets the requirements of the European Council's directive 89/336 and successive modifications as to electro-magnetic compatibility and the Council directive 73/23 as to electrical equipment to be applied within certain voltage ranges.

Standards applied

EN 61000-6-3, EN 61000-6-2, EN 60 730-1 and EN 60730-2-9.

The product may only be energised when the entire installation meets the current directive requirements.

When the product is installed according to this instructions guide and the current installation guidelines, it is covered by factory guarantee.

If the product has been exposed to damage e.g. in transport, it must be checked and overhauled by qualified staff before the product is connected to the power.

TECHNICAL DATA

Voltage230V AC +10/-15%, 50/60 Hz
 Current consumption6 VA
 Max. fuse16A
 Built-in switch1-pole, 16A
 Output relay - make contactSPST-NO
 Load14A, 3200W
 Regulation principleON/OFF
 Temperature scale+5/+40°C
 Difference/hysteresis0.4°C
 Setback temperaturefixed 5°C
 - control voltage signal230V AC
 Scale limitationmin./max.
 Error circuit fuse at-20°C
 Ambient temperature0/+50°C
 Dimensions
 with backing plateH/86, W/86, D/50 mm
 without backing plate . .H/80, W/80, D/50 mm
 ProtectionIP21

The thermostat is free of maintenance.

CLASSIFICATION

The product is a class II device (reinforced insulation) and the product must be connected to the following conductors:

- 1) Phase (L)
- 2) Neutral (N)

FITTING OF SENSOR

Floor sensor: Can be placed in conduit pipe which is embedded in floor (fig. 3). The pipe is thickened in the end and placed as high as possible in the concrete layer. Sensor cable may be extended up to 50 m with separate cable for power current. Two conductors in a multicouducting cable, which e.g. is used for supply of heating cable, may not be used. Voltage signals, which may disturb the function of the thermostat, may occur. If the cable is used with shield, the shield may not be connected to the ground, but must be connected to terminal 7. The best installation is attained with a separate cable for the sensor, which is then fitted in a separate conduit.

The thermostat units contain a fault interrupter circuit which interrupts the heating in case of disconnected or short-circuited sensors.

FITTING OF THERMOSTAT (fig. 1-2)

1. Remove the control knob (A).
2. Screw (B) should be unscrewed and the cover lifted off.
3. Electrical connections can be made as shown in the wiring diagram.
4. The thermostat can now be fitted into the wall box.
 - frame and cover is fitted
 - thermostat knob is replaced

SETBACK TEMPERATURE

Setback of temperature setting is activated by a 230 V (L) signal from an external time switch to terminal 5. Setback temperature is fixed 5°C.

TEMPERATURE SETTING

The thermostat has a scale range of +5/+40°C. To assist the adjustment, the thermostat has a LED (D) which will glow RED when the heating is ON. The thermostat should be set to 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 1/2 days to suit individual requirements.

MAX./MIN. TEMPERATURE

A locking mechanism is positioned behind the control knob to limit the amount of adjustment possible. By loosening the little screw (C), the scale range can be locked. The red ring indicates the maximum temperature and the blue ring indicates the minimum temperature.

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Fig. 1

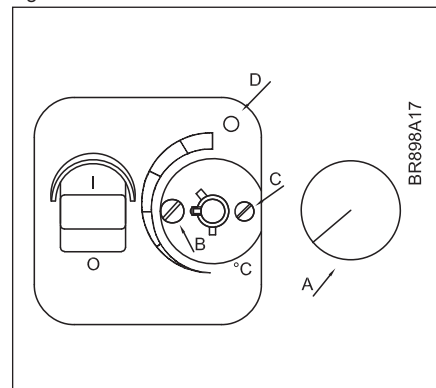


Fig. 2

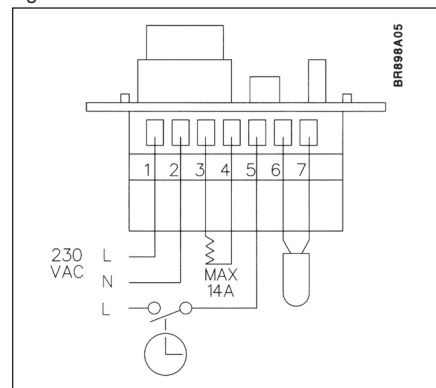


Fig. 3

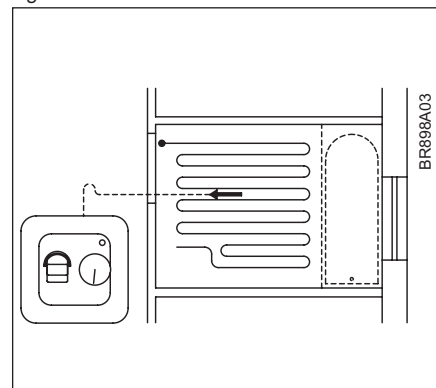


Fig. 4

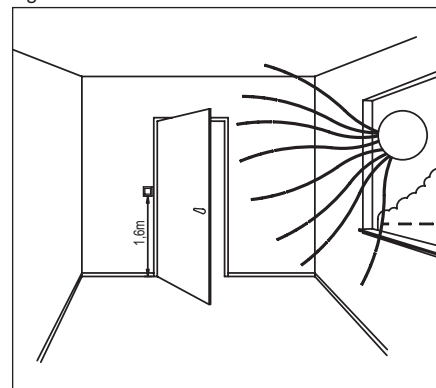


Fig. 5

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

