



## ETV-1991

### APPLICATION

Control of electrical heating, floor, ceiling and radiant.

### PRODUCT PROGRAMME

**ETV with scale range 0/+40°C, 230V AC**

ETV-1991-P Incl. floor sensor 2.5 m

### FUNCTION

The temperature is set to the required temperature and the heating output is energised/de-energised with a difference of only 0.4°C. LED indication when the relay is energised.

### CE MARKING

OJ declare under their own responsibility that 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 50 081-1, EN 50 082-2, 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

<b>Supply voltage ETV-1991-P</b>	<b>230V AC, ±10%, 50-60 Hz</b>
<b>Max. fuse</b>	16A
<b>Output relay</b>	S.P.S.T., dry contact 16A, max. 3.6 kW
<b>On/Off difference</b>	0.4°C
<b>Operation temperature</b>	0/+50°C
<b>Power consumption</b>	3 VA
<b>Weight</b>	90 g
<b>Dimensions (HxBxW)</b>	86x36x58mm
<b>Housing</b>	IP 20
<b>Temperature sensor</b>	NTC-thermistor

### CLASSIFICATION

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

- 1) Phase (F/L1)
- 2) Neutral (N/L2)

### TEMPERATURE SETTING

ETV has a scale range of 0/+40°C. Red LED indication when heat is on. The thermostat is set on max. temperature, until the required room temperature has been reached. Then the thermostat is turned down until the LED turns off. After 1-2 days a fine adjustment may be required.

### INSTALLATION

ETV is mounted on a DIN-rail, cover box for wall mounting is obtainable as extra equipment. Connection according to figure 1.

**Floor sensor:** Is mounted in standard conduit embedded into the floor, and positioned between the heating cables - and preferably as close to the floor surface as possible. If required, the sensor cable can be extended up to 100 m with standard installation cable.

**Room sensor:** The sensor is positioned on the wall in such a way that there is free air circulation above it. Furthermore it should be placed in such a way that its position is not influenced by any form of heating outlet (e.g. the sun) draughts from doors or windows or by the outside temperature (outside wall).

**Sensor cable:** The sensor cable must not run in trunking or in bundles together with other circuits. The sensor cable should not be laid parallel to cables which may induce signals/noise to the sensor signal and thus disturb the functioning of the thermostat.

### CONNECTION (fig. 1)

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Fig. 1

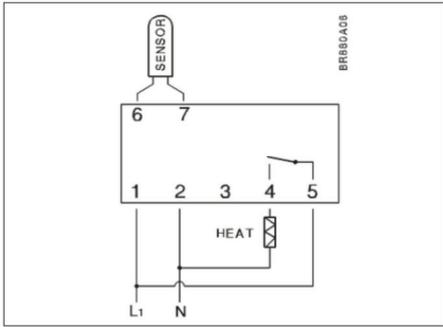


Fig. 2

