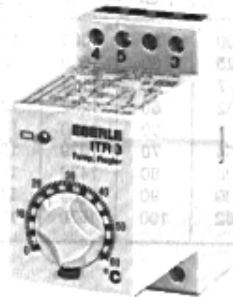


Mounting and operating instructions

Temperature Controller 52835 ITR 3



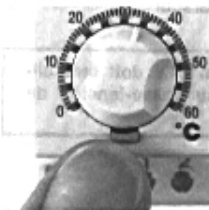
Mounting

The controller is designed for mounting onto 35 mm D.I.N. rail. Electrical connections are according to the printed circuit diagram.

NOTE

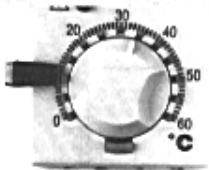
The thermostat should be installed by qualified personnel only. The relevant safety regulations must be observed. For applications, dimensions, and technical data, refer to the catalogue.

Functions



The desired temperature is set via the knob on the front of the controller.

The setting can be locked with the button located below the setting knob. A 5°C limit is possible with the use of tappets on the temperature scale.



Please note: Locking and range limits are provided to protect against incorrect settings. Never turn the setting knob using force. If it cannot be turned easily, check whether or not the control knob is locked.

Contacts 2 and 3 are made until the set temperature is reached. The green LED lights up.

Remote sensor

When using the standard sensor in liquids a pocket must be used. The sensor should be in contact with as large a surface area as possible.

When using the air sensor it is important that the air ducts are sited correctly for air flow.

The sensor cable, with a diameter of 1.5 mm², can be extended up to 50 m without adverse effect on the accuracy of the controller. When the sensor cable is laid in cable ducts or near high current cables, it may be necessary to use screened cable.

Sensor data

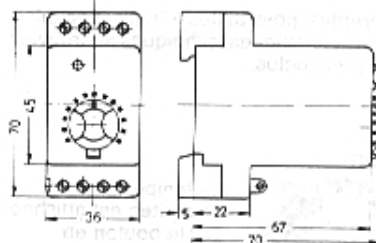
θ (°C)	R (Ohm)	θ (°C)	R (Ohm)	θ (°C)	R (Ohm)
-55	500	25	1000	110	1774
-50	525	30	1039	120	1882
-40	577	40	1118	125	1937
-30	632	50	1202	130	1993
-20	691	60	1288	140	2107
-10	754	70	1379	150	2225
0	820	80	1472	160	2346
10	889	90	1569	170	2471
20	962	100	1670	175	2535

Technical Data

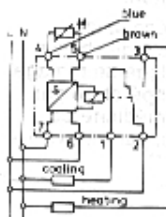
Operating Voltage	220/230 V, 50/60 Hz (187 V to 242 V) 240 V, 50/60 Hz (204 V to 264 V)
Special voltage on request	110/115 V, 50/60 Hz (93 V to 127 V) 24 V, 50/60 Hz; 24 V- (20,4 V to 26,4 V)
Switching Capacity	10 (4) A, 250 V AC
Temperature ranges (Nominal value indication)	-40 to 20 °C/ 0 to 60 °C 40 to 100 °C/100 to 160 °C
Ambient temperature	
Accuracy	-10 to 50 °C
Operation	-25 to 50 °C
Storage	-40 to 70 °C
Static switching differential	1 K
Contact	1 change over

NOTE: 24 V Version. Supply has to be made via protected small voltage mains.

Dimension drawing



Wiring diagram



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