



Black Bulb Temperature Sensors TE-RB/OB

Description

The Black Bulb temperature sensor determines the effective portion of active radiation or also the effective radiant heat at the measured location. Due to the measuring method applied by the dark radiation temperature sensor in combination with its positioning in the room, excellent measuring results are achieved.



Features

- ◆ Flame retardant ABS housing
- ◆ Wide choice of sensor options



Technical Specification

Sensor Type: Thermistor or RTD element

Accuracy: Thermistor - $\pm 0.2^{\circ}\text{C}$, 0...70 $^{\circ}\text{C}$
RTD - Class A $\pm 0.15^{\circ}\text{C}$ @ 0 $^{\circ}\text{C}$, $\pm 0.35^{\circ}\text{C}$ @ 100 $^{\circ}\text{C}$

Housing: Flame retardant ABS

Colour: White

Protection: RSTF - IP30 ASTF - IP65

Terminals: Rising clamp 0.5-2.5mm² cable

Ambient: -20 $^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$, 0-95% RH non-condensing

Dimensions

TE-RB85 x 85 mm

TE-OB 87 x 87 71 mm

Order Code

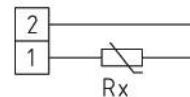
Space	IP65	
TE-RB/T	TE-OB/T	10K3A1, Trend
TE-RB/A	TE-OB/A	10K4A1, Andover, Delta
TE-RB/H	TE-OB/H	20K6A1, Honeywell
TE-RB/100	TE-OB/100	PT100A
TE-RB/1K	TE-OB/1K	PT1000A, Cylon
TE-RB/LAN	TE-OB/LAN	Ni1000 TK5000, Siemens
TE-RB/TAC	TE-OB/TAC	1.8K3A1, TAC

Installation

The sensor should be installed by a suitably qualified technician in conjunction with any guidelines for the equipment which it is to be connected to. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the sensor is being connected to. As a general rule, screened cable should be used to connect the sensor to a BMS or other controller. Please note that none of the sensors are suitable for use with mains voltage.

Wiring

Connect wires into the two way terminal block on the printed circuit board. Do not over-tighten the terminal screws as excessive force can cause damage to the terminal block and housing.



BMS Compatibility

Thermistor type	10K Ω @ 25 $^{\circ}\text{C}$	10K Ω @ 25 $^{\circ}\text{C}$	20K Ω @ 25 $^{\circ}\text{C}$	1000 Ω @ 0 $^{\circ}\text{C}$	100 Ω @ 0 $^{\circ}\text{C}$	1000 Ω @ 0 $^{\circ}\text{C}$	1.8K Ω @ 25 $^{\circ}\text{C}$
Compatibility	Type T Trend	Type A Andover	Type H Honeywell	Type LAN Siemens	Type 100 Honeywell	Type 1K Johnsons	Type TAC TAC

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