



Immersion Temperature Sensors TE-I

Description:

The TE-I range of immersion temperature sensors are designed to interface with a wide variety of HVAC control equipment. Units are available with a high quality thermistor element or platinum element. The housing has a quick release lid for ease of installation and gasket for sealing to the duct. The probe is stainless steel for maximum corrosion resistance and brass or stainless steel pockets are available.

Technical Specification:

Sensor Type:	Thermistor or RTD element - see order codes for options
Accuracy:	Thermistor - $\pm 0.2^{\circ}\text{C}$, 0...70°C RTD - Class A $\pm 0.15^{\circ}\text{C}$ @ 0°C, $\pm 0.35^{\circ}\text{C}$ @ 100°C
Housing:	Flame retardant ABS
Probe:	6mm diameter stainless steel 150mm (standard)
Pocket:	Stainless Steel 1/2" BSPT thread
Protection:	IP65
Terminals:	Rising clamp 0.5-2.5mm ² cable
Ambient:	-20°C to +85°C, 0-95% RH non-condensing

Order Codes:

TE-IT	Immersion Temperature Sensor - 10KΩ @ 25°C
TE-IA	Immersion Temperature Sensor - 10KΩ @ 25°C
TE-ITAC	Immersion Temperature Sensor - 1.8KΩ @ 25°C
TE-ISAT	Immersion Temperature Sensor - 5025Ω @ 25°C
TE-I3K	Immersion Temperature Sensor - 3KΩ @ 25°C
TE-IH	Immersion Temperature Sensor - 20KΩ @ 25°C
TE-ID	Immersion Temperature Sensor - 30KΩ @ 25°C
TE-IP	Immersion Temperature Sensor - 50KΩ @ 25°C
TE-I100	Immersion Temperature Sensor - 100Ω @ 0°C
TE-I1K	Immersion Temperature Sensor - 1000Ω @ 0°C

TE-ISP Stainless Steel Pocket

Other sensor types available. Contact us for details

Lengths available: 200, 250, 300, 350, 400, 450mm

Shorter lengths also available

Features:

- IP65 Flame retardant ABS housing
- Stainless steel probe
- Stainless Steel Pocket
- Wide choice of sensor options

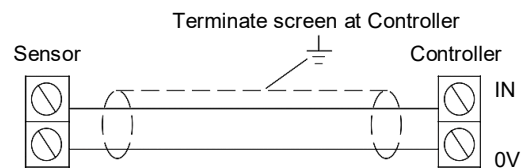


Installation:

The TE-I 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. Choose an accessible location for the sensor pocket where it will lie in the liquid to be measured. Ensure no stratification in liquid flow being measured (e.g., downstream of mixing valves or junctions). Screw the pocket into a 1/2" BSPT thread. Apply sealant to boss thread. If the boss is threaded incorrectly, an adaptor should be used. Slide sensor probe into pocket with the cable entry at the desired angle. Ensure that the end of the probe is hard against the end of the pocket, and tighten the grub screw to fix the sensor.

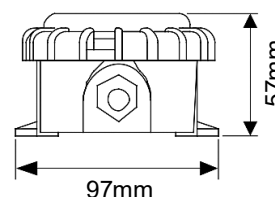
Wiring:

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.



Polarity independent

Housing Dimensions:



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