

Room Temperature Sensors (NTC & PTC)

Product Overview

The AX-TE-R Series Room and Space Temperature Sensors are designed for HVAC and Building Management System (BMS) applications. Available with precision thermistor and platinum output options, they provide accurate and reliable temperature monitoring.

The compact enclosure supports both surface mounting and installation onto standard recessed pattress or conduit boxes. Optimised ventilation ensures rapid thermal response and accurate measurement of the occupied environment.



Products Features

- Choice of NTC thermistor and PTC platinum sensors
- High-accuracy room temperature sensing
- Simple direct-mount installation
- IP20 Rating

Product Specifications

Output:		Range of two wire NTC thermistor and PTC platinum elements providing variable resistance.
Accuracy:	Thermistor:	$\pm 0.2^{\circ}\text{C}$ between 0°C and 70°C (NTC)
	Platinum:	$\pm 0.35^{\circ}\text{C}$ between 0°C and 100°C (PT100a and PT1000a)
Housing Materials:		ABS Plastic
Ambient Temperature Range:		-20°C to 70°C , 0 to 95% RH
Terminals:		Screw - Leaf Spring, Wire Guard ; Suitable for 0.08-2.5mm ² wires
Housing Dimensions:		86mm (L) x 86mm (W) x 26mm (H)
Fixing Holes:		2 off, holes on 61mm centres
Protection:		IP20
Country of Origin:		United Kingdom

Product Order Codes

Part Number	Description	Thermistor
AX-TE-RT	Room Temperature Sensor, Wall/Space Mount, 10K3A1 NTC Output	10K3A1 NTC
AX-TE-R3K	Room Temperature Sensor, Wall/Space Mount, 3K3A1 NTC Output	3K3A1 NTC
AX-TE-RA	Room Temperature Sensor, Wall/Space Mount, 10K4A1 NTC Output	10K4A1 NTC
AX-TE-RH	Room Temperature Sensor, Wall/Space Mount, 20K6A1 NTC Output	20K6A1 NTC
AX-TE-RD	Room Temperature Sensor, Wall/Space Mount, 30K6A1 NTC Output	30K6A1 NTC
AX-TE-RTAC	Room Temperature Sensor, Wall/Space Mount, 1K87A1 NTC Output	1K87A1 NTC
AX-TE-RSAT	Room Temperature Sensor, Wall/Space Mount, SAT1 NTC Output	SAT1 NTC
AX-TE-R50K	Room Temperature Sensor, Wall/Space Mount, 50K6A1 NTC Output	50K6A1 NTC
AX-TE-R2.2K	Room Temperature Sensor, Wall/Space Mount, 2.2K NTC Output	2.2K NTC
AX-TE-R100	Room Temperature Sensor, Wall/Space Mount, PT100 PTC Output	PT100a Platinum
AX-TE-R1K	Room Temperature Sensor, Wall/Space Mount, PT1000 PTC Output	PT1000a Platinum
AX-TE-RN1K	Room Temperature Sensor, Wall/Space Mount, Ni1000 Output	Ni1000 Nickel (TCR)

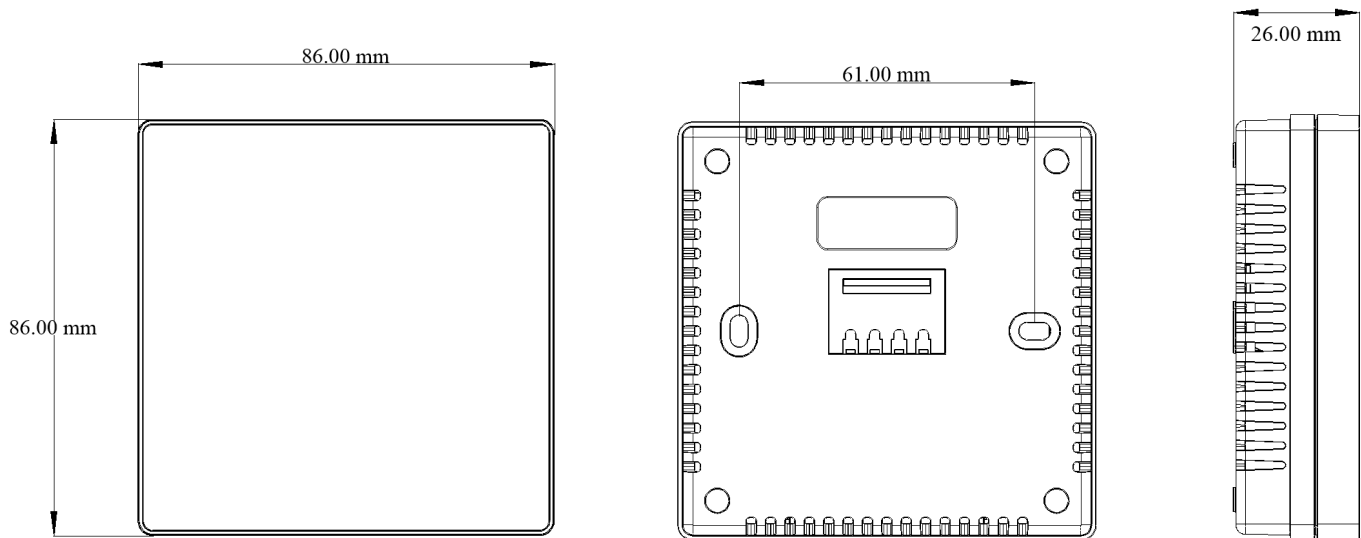
Installation:

The AX-TE-R Series sensor must be installed by a suitably qualified technician in accordance with the requirements of the connected HVAC or BMS equipment. Use screened cable where recommended to ensure reliable operation. The sensor is designed for low-voltage applications only and must not be connected to mains voltage. Suitable for indoor wall mounting, it can be fixed directly to the mounting surface or a standard recessed pattress/conduit box using appropriate fixings.

Connection:

Passive sensors are polarity independent and connect via the two-way terminal block provided. Ensure conductors are securely terminated without over-tightening the terminal screws. When using screened cable, keep the exposed screen length to a minimum and connect the screen to a functional earth at the controller or BMS end, in accordance with the equipment manufacturer's instructions.

Dimensions:



Datasheets Content

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