



Product Overview

The AX-TE-Px range of plate temperature sensors interface with a wide variety of HVAC control equipment. Units are available with high quality thermistor elements.

The sensors are supplied on a brushed stainless steel plate with a screwless finish and mount on a standard single gang back box.

Features

- Large range of sensor options
- Attractive stainless steel plate
- Screwless front plate

Product Specifications

Output:		Range of 2-wire thermistor elements providing variable resistance
Accuracy	Thermistor	$\pm 0.2^{\circ}\text{C}$ between 0°C and 70°C
Terminals		Rising clamp for $0.5\text{-}1.5\text{mm}^2$ cable
Ambient Temperature		-10°C to 60°C
Plate Dimensions		$86.5 \times 86.5 \times 5\text{mm}$ above surface
Country of Origin		United Kingdom

Order Codes

AX-TE-PT	10K3A1 NTC Thermistor	AX-TE-PTAC	1K87A1 NTC Thermistor
AX-TE-PA	10K4A1 NTC Thermistor	AX-TE-PST1	Staefa PTC Element
AX-TE-P3K	3K3A1 NTC Thermistor	AX-TE-P1K	PTC PT1000 Element
AX-TE-PH	20K6A1 NTC Thermistor	AX-TE-P100	PTC PT100 Element
AX-TE-PD	30K6A1 NTC Thermistor	AX-TE-PN1K	Ni1000a Nickel (TCR)
AX-TE-PSAT	SAT1 NTC Thermistor	AX-TE-P-x-SP	Thermistor + 1-11Kohm Setpoint
AX-TE-P2.2K	2.2K NTC Thermistor		

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Installation

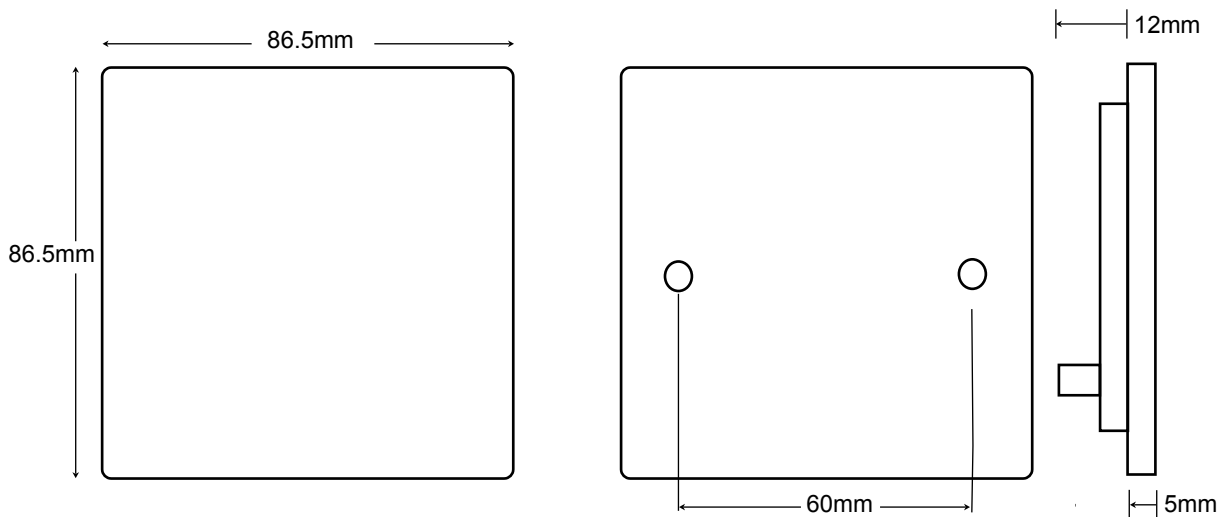
The AX-TE-Px sensor should be installed by a suitably qualified technician in conjunction with any guidelines for the equipment which it is to be connected to. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the sensor is being connected 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 AX-TE-Px sensors are suitable for use with mains voltage. The AX-TE-Px is designed to be fixed directly to an internal wall using the lugs at the base of the housing. The type of fixing used will depend on the material that the sensor is being mounted on.

Connection

Passive sensors are polarity independent. Wires should be stripped and screwed into the two way terminal block in the main body of the sensor housing. Do not over-tighten the terminal screws as excessive force can cause damage to the terminal block and housing.

If screened cable is used, the shortest possible section of outer sheath should be removed to effect wiring. As there is no earth connection in the sensor, the screen must be connected to a functional earth elsewhere (often provided at the BMS or HVAC controller) in accordance with the instructions for the equipment that the AX-TE-Px is to be connected to.

Plate Dimensions



Trend sensor scaling

The following sensor scaling is for the AX-TE-PT passive sensor. If using SET to configure the controller, the AX-TE-PT has the same characteristics as a Trend Thermistor.

If the sensor is being scaled manually the following information should be used for IQ2xx controllers with firmware v2.1 and above and IQ3 series controllers.

Sensor Type Module Settings

Set the sensor type scaling mode to 5 - characterise

Y = 1	11 = 2.641	O1 = 50
E = 3	12 = 3.47	O2 = 40
U = 50	13 = 4.46	O3 = 30
L = -5	14 = 6.66	O4 = 10
P = 6	15 = 7.668	O5 = 0
	16 = 8.102	O6 = -5