



Product Overview

The Axio AX-TE-S range of strap on temperature sensors are for fitting to the outside of pipes. The sensors interface with a wide variety of HVAC control equipment and are available with a high quality thermistor element.

The units are supplied complete with a stainless steel pipe strap.

Features

- Bent stainless lug for fixing to the pipe
- Complete with cable and fixing clip
- Range of NTC/PTC Thermistors
- Flame retardant ABS plastic (needs revision)

Product Specifications

Output:	Range of 2-wire thermistor elements (see below)
Temperature Range:	-40 to 105°C as standard
Accuracy:	±0.2°C between 0°C and 70°C
Cable:	2m cable standard, 1m version available
Terminals:	Rising Clamp for 0.5-1.5mm ² Cable
Materials:	Housing ABS plastic (needs revision)
	Probe Stainless Steel or Brass
Ambient Temperature:	-10°C to 60°C
Housing Dimensions:	92mm diameter x 52mm height
Fixing Holes:	92mm from centres, 4mm hole
Protection:	IP65
Country of Origin:	United Kingdom

Order Codes

AX-TE-ST	Strap On Temperature Sensor 10K3A1 bent lug 2m cable
AX-TE-ST-1m	Strap On Temperature Sensor 10K3A1 bent lug 1m cable
AX-TE-SA	Strap On Temperature Sensor 10K4A1 bent lug 2m cable
AX-TE-SD	Strap On Temperature Sensor 30K6A1 bent lug 2m cable
AX-TE-SH	Strap On Temperature Sensor 20K6A1 bent lug 2m cable
AX-TE-S3K	Strap On Temperature Sensor 3K3A1 bent lug 2m cable
AX-TE-S2.2K	Strap On Temperature Sensor 2.2K bent lug 2m cable
AX-TE-SSAT	Strap On Temperature Sensor SAT1 bent lug 2m cable
AX-TE-STAC	Strap On Temperature Sensor TAC bent lug 2m cable
AX-TE-S100	Strap On Temperature Sensor PT100 bent lug 2m cable
AX-TE-S1K	Strap On Temperature Sensor PT1000a bent lug 2m cable
AX-TE-SN1K	Strap On Temperature Sensor Ni1000 bent lug 2m cable

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Installation

The AX-TE-S 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-S sensors are suitable for use with mains voltage.

Connection

Passive Sensors:

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 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-S is to be connected to.

Trend sensor scaling

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

Prior to commissioning, ensure that the universal input jumper is set to T to accept a thermistor input.

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. For scaling on older controllers, please refer to the engineering data in the Axio catalogue.

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

Note: this is scaled for -5 to 50°C, recalculate for other range scales

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