

AX-TE-Fx-W

Waterproof Flying Lead Temperature Sensor

AXIO



Product Overview

The AX-TE-Fx-W range of waterproof flying lead temperature sensors interface with a wide variety of HVAC control equipment. Units are available with a high quality thermistor element. The sensor provides a solution for applications where the sensor is required to be in a wet environment.

The unit is also available with the sensor encapsulated in a Stainless Steel cap. See order codes.

For active output, see AX-TE-xTX-W datasheet

Features

- Over-moulded tip
- IP68 fully waterproof
- Complete with 2m waterproof cable
- Flame retardant TPE

Product Specifications

Accuracy:	Thermistor	$\pm 0.2^{\circ}\text{C}$ between 0°C and 70°C
	Platinum	$\pm 0.35^{\circ}\text{C}$ between 0°C and 100°C (PT100a and PT1000a)
Materials:	Insulation	TPE
	Core	2 x AWG 24 stranded tinned copper
Ambient Temperature:		-40°C to 105°C
Dimensions:	Probe	20 x 5mm diameter
	Cable	3.3mm diameter
Cable Length:		Standard 2m waterproof cable, other lengths available below
Protection:		IP68
Country of Origin:		EU

Order Codes

AX-TE-Fx-nM-W Flying Lead Temperature Sensor

Replace x and n with sensor type and cable length listed below, e.g. AX-TE-F100-2M-W

-T	10K3A1 NTC Thermistor	-100	PT100a Platinum Element	-2	2m cable
-A	10K4A1 NTC Thermistor	-1K	PT1000a Platinum Element	-5	5m cable
-H	20K6A1 NTC Thermistor	-N1K	Ni1000a Nickel Element TCR	-10	10m cable
-3K	3K3A1 NTC Thermistor	-SAT	SAT1 NTC Thermistor	-25	25m cable
-50K	50K6A1 NTC Thermistor	-TAC	1K87 TAC NTC Thermistor	-50	50m cable
-100K	100K6A1 NTC Thermistor	-STA	STA1 Landis & Staefa	-nn	Other lengths available upon request

SS suffix

Optional Stainless Steel cap (e.g. AX-TE-FT-2M-WSS)

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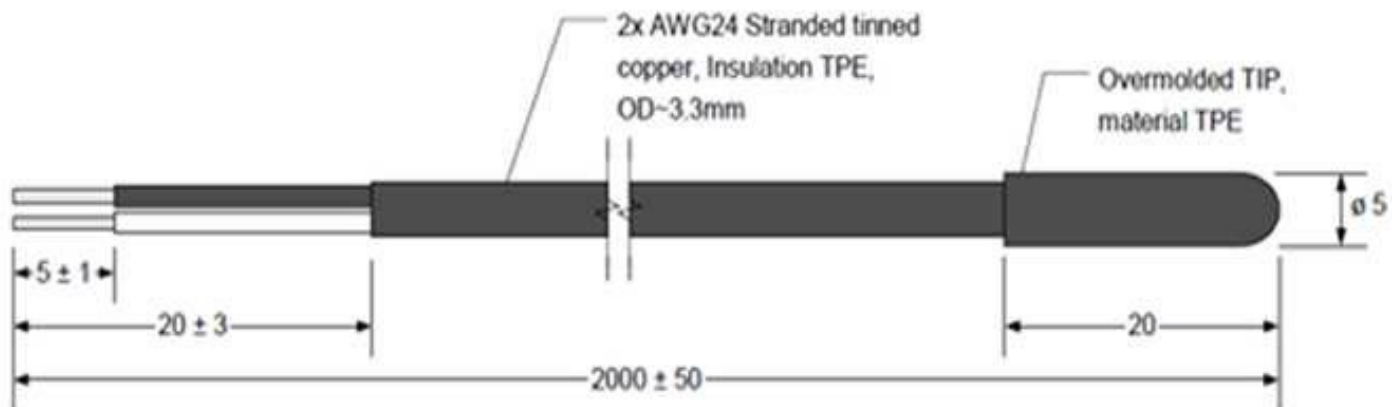


Installation

The AX-TE-Fx-W 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.

Please note that the AX-TE-Fx-W are NOT suitable for mains voltage.

Dimensions



Units: [mm]

Trend Sensor Scaling

The following sensor scaling is for the AX-TE-FT-S passive sensor. If using SET to configure the controller, the AX-TE-FT-S 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

This is for a range of -5 to 50°C (rescale according to temperature range to be monitored)

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

Datasheet Contents

Every effort has been taken in the production of this data sheet to ensure accuracy. Axio do not accept responsibility for any damage, expense, injury, loss or consequential loss resulting from any errors or omissions. Axio has a policy of continuous improvement and reserves the right to change this specification without notice.