

DW-TE-Fx-W

Waterproof Flying Lead Temperature Sensor

**HANLEY CONTROLS**

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Dwyer

Product Overview

The DW-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.

Features

- Overmoulded Tip
- Waterproof
- Complete With 2m waterproof Cable
- Flame Retardant TPE

Product Specifications

Accuracy:		+/- 1%
Materials:	Insulation	TPE
	Core	2 x AWG24 Stranded tinned copper
Terminals:		5mm Conductor Insulation Stripped and Solder Coated
Ambient Temp:		-40°C to 105°C
Dimensions:	Probe:	20 x 5mm diameter
	Cable:	3.3mm diameter
Cable Length:		2m waterproof cable
Protection:		IP68
Country of Origin:		EU

Order Codes

DW-TE-Fx-W - Waterproof Flying Lead Temperature Sensor.

'x' Denotes sensor type, please see below. (eg. DW-TE-FT-W)

-T 10K3A1 NTC Thermistor (Stock Item)

All of the below sensor types are available on request

-A 10K4A1 NTC Thermistor

-H 20K6A1 NTC Thermistor

-3K 3K3A1 NTC Thermistor

-SAT SAT1 NTC Thermistor

-100 PT100a Platinum Element

-1K PT1000a Platinum Element

-N1K Ni1000a Nickel Element TCR curve

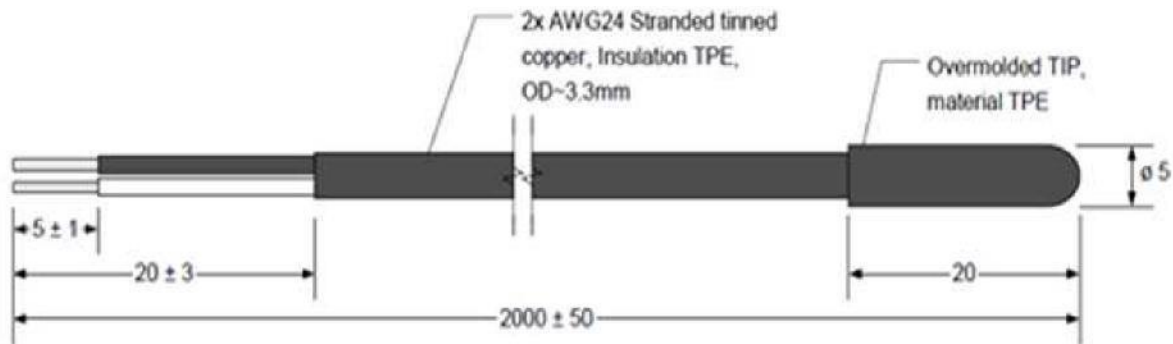
-TXI Active 4-20mA Linear Output

Installation

The DW-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 DW-TE-Fx-W are NOT suitable for use with mains voltage.

Dimensions



Units: [mm]

Trend Sensor Scaling

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

Sensor Type Module SettingsD

Set the sensor type scaling mode to 5 - characterise

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

Y= 1	I1 =2.641	O1 = 50
E = 3	I2 =3.47	O2 = 40
U= 50	I3 =4.46	O3 = 30
L = -5	I4 =6.66	O4 = 10
P = 6	I5 =7.668	O5 = 0
	I6 =8.102	O6 = -5