AX-TE-xTX-W

Temperature Transmitter - Wide Range

Product Overview

The AX-TE-xTX-W is a range of Active Temperature Transmitters with both 0-10Vdc and Loop Powered 4-20mA outputs. The units have selectable output ranges from -50°C to 400°C.

Easy to configure, with jumper selection for all options.

Features

- Loop powered 4-20mA output
- Voltage output 0-10Vdc or 0-5Vdc
- Covers -50°C to 400°C
- Multiple temperature ranges
- Wide array of mounting options
- IP65 enclosure for electronics

Product Specifications

Output:		Voltage output mode - 0-5Vdc / 0-10Vdc at 5mA maximum.
		Current output mode - 4-20mA maximum resistance of load 500Ω
Power Supply:		Voltage output mode - 24Vdc or 24Vac (±15%)
		Current output mode - 24Vdc (±15%) 2-wire Loop power
Power Consumption:		40mA maximum for voltage output
		20mA maximum when loop powered
Materials:	Housing:	Flame retardant ABS plastic
	Probe:	Dependant on sensor option
	Gland:	Polyamide
Terminals:		Rising clamp for 0.5-2.5mm² cable
Cable Entry:		M20 Compression Gland
Ambient Temperature:		0-50˚C for electronics
Dimensions:		Dependant on sensor option - See specific AX-TE-** Datasheet and drawing on page 2
Weight:		150grams excluding mounting option
Country of Origin:		United Kingdom

Order Codes

AX-TE-DTX-W	Duct - 150mm Probe - Wide Range Temperature Transmitter
AX-TE-FTX-W	Flying Lead - 2 Meter - Wide Range Temperature Transmitter
AX-TE-ITX-W	Immersion- 150mm Probe - Wide Range Temperature Transmitter
AX-TE-ITX-W-65	Immersion- 65mm Probe - Wide Range Temperature Transmitter
AX-TE-OTX-W	Outside Air - Wide Range Temperature Transmitter
AX-TE-STX-W	Pipe Strap - 2 meter - Wide Range Temperature Transmitter
AX-TE-TTX-W	White Thimble - 1 meter - Wide Range Temperature Transmitter

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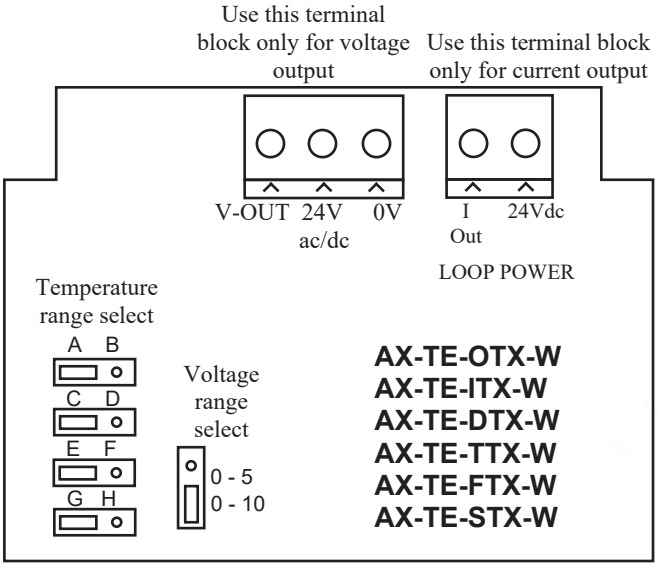
Installation
The AX-TE-xTX-W should be installed by a suitably qualified technician in conjunction with any guidelines for the equipment which it is to be connected to. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the module is being connected to using screened cable where necessary.

Connections
Only make connections to one of the terminal blocks. Only apply power to the unit when all connections and jumper settings have been completed.

For current operation use the 2-way terminal block. 24Vdc loop power is connected to 24Vdc terminal. The current output is taken from I-OUT terminal into the measuring device. In this mode the 0-10V output is disabled and the unit controls the supply current between 4-20 mA.

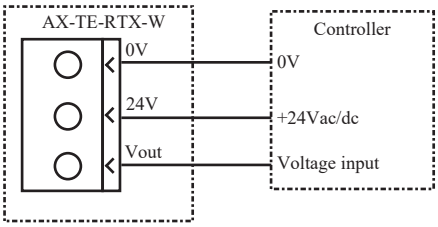
For voltage operation use the 3-way terminal block. 24Vac or 24Vdc supply is connected to 24V and the return 0V is connected to 0V. The voltage output is taken from V-OUT. The Voltage range jumper is used to select between 0-5V and 0-10V outputs.

Fault Condition
When a sensor fault is detected the output will reduce to 0V or 3mA depending on the operating mode.

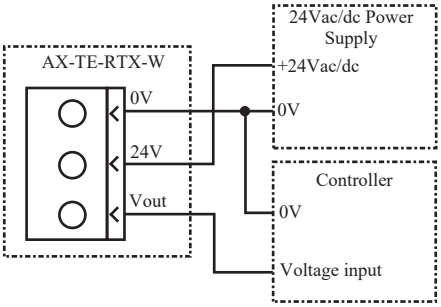


Wiring Examples

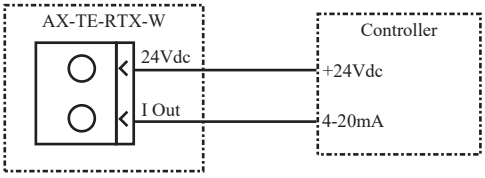
Voltage output, with power from controller



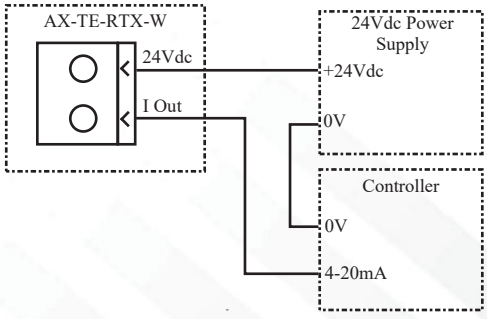
Voltage output, with external power



4-20mA output, with power from controller



4-20mA output, with external power



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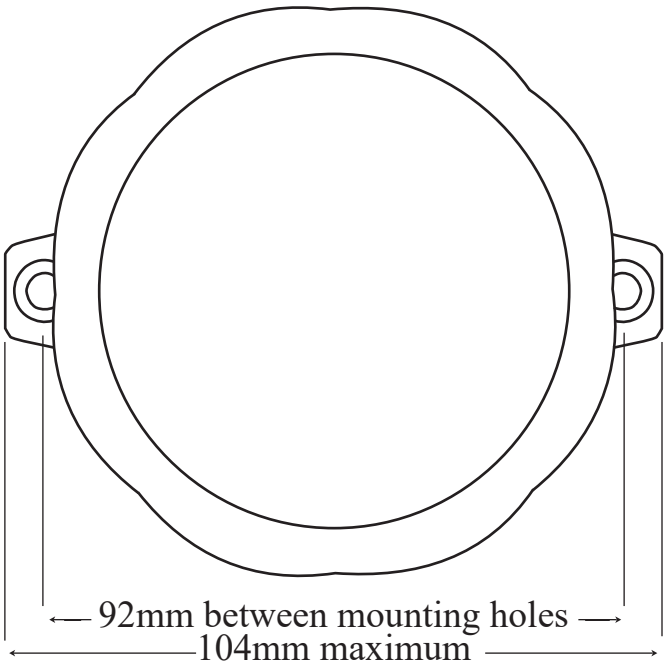
Jumper Positions

Temperature Range

Jumpers	Range
ACEG	-50°C to 50°C
BCEG	0°C to 100°C
ADEG	50°C to 150°C
BDEG	100°C to 200°C
ACFG	150°C to 250°C
BCFG	200°C to 300°C
ADFG	250°C to 350°C
BDFG	300°C to 400°C
ACEH	-10°C to 40°C
BCEH	-30°C to 160°C
ADEH	0°C to 50°C
BDEH	-10°C to 60°C
ACFH	-20°C to 70°C

Voltage Output Range

0 - 5	0 to 5Vdc
0 - 10	0 to 10Vdc



Datasheet Contents

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