AX-TE-AVCTX-W-x

Duct averaging temperature transmitter, Copper probe

Product overview

The AX-TE-AVCTX-W is a wide range duct averaging temperature transmitter with a copper probe. The temperature measurement covers -50°C to 400°C and can be selected in several ranges. The device provides 0-5 / 0-10 volts output or loop powered 4-20mA output. Four different lengths of tube are available.

Features

- 0-5 or 0-10 volt output
- Loop powered 4-20mA output
- Covers -50°C to 400°C
- Multiple input ranges
- 4 lengths 1800, 3600, 6000, 7200mm

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%)
Power Consumption:	40mA maximum for voltage output
	20mA maximum when loop powered
Terminals:	Rising clamp for 0.5-2.5mm² cable
Ambient Temperature:	0-50˚C
Dimensions:	TBC
Weight:	150 gms
Country of Origin:	United Kingdom

Order codes

AX-TE-AVCTX-W-xxxx	Duct Averaging Temperature Transmitter, Copper probe

xxxx - Denotes copper tube length in mm - 1800, -3600, -6000, -7200

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Datasheet contents

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Installation

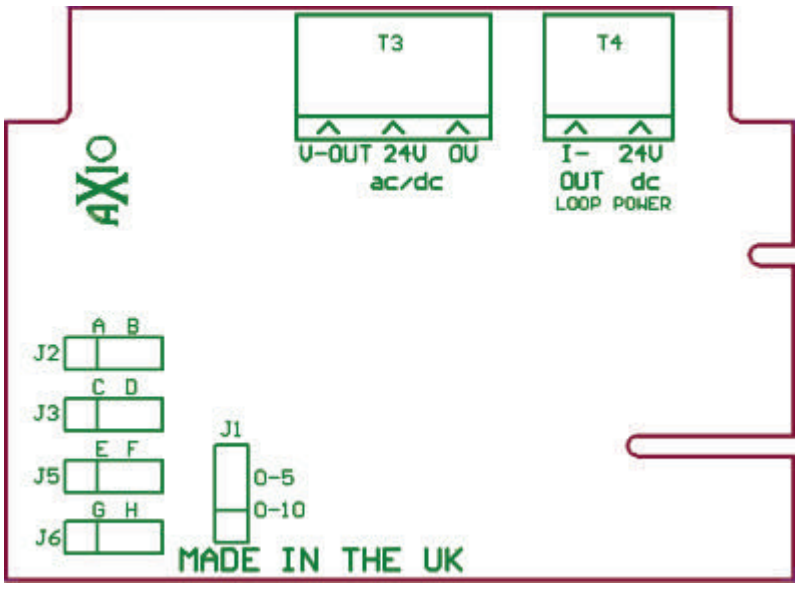
The AX-TE-AVCTX-W should be installed by a suitably qualified technician in conjunction with any guidelines for the equipment which it is to be connected to. Field wiring should installed to satisfy the requirements set out by the manufacturer of the equipment that the module is being connected to using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

Connections

The diagram below shows the terminal designations for the AX-TE-AVCTX-W. Power should not be connected to terminals T3:24ac/dc and T4:24Vdc at the same time. When loop powered the 0-10V output is disabled and the unit controls the supply current between 4 and 20 mA. When not loop powered the supply current is not controlled and the 0-10V output is active, the range jumper can then be used to select between 0-5V and 0-10V output.

For current operation 24Vdc loop power should be connected to T4:24Vdc. The current output is taken from T4:I-OUT into the measuring device.

For voltage operation a 24Vac or 24Vdc supply should be connected to T3:24V and the return 0V should be connected to T3:0V. The voltage output is taken from T3:V-OUT.



Jumpers

Input 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

Output Range	
0--5	0 to 5 volts
0--10	0 to 10 volts

Fault condition

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