

AX-TE-DAVTXA

Duct Averaging Temperature Transmitter

AXIO



Product Overview

The AX-TE-DAVTXA is a wide range duct averaging temperature transmitter with an aluminium probe. The temperature measurements cover -20°C to 100°C , selectable in several ranges. The device provides 3 wire 0-5V / 0-10V output or 2 wire loop-powered 4-20mA output. Four probe lengths are available with side or bottom entry options.

Features

- IP65 Housing
- 3-wire 0-5V or 0-10V output
- 2-wire 4-20mA loop-powered
- Probe lengths 1800, 3600, 6000, 7200mm
- Flexible 5mm aluminium tube
- Flame retardant ABS

Product Specifications

| | |
|----------------------------|--|
| Output: | 3-wire 0-5Vdc or 0-10Vdc at 5mA maximum 2 wire 4-20mA, maximum load 500 Ω |
| Power Supply: | Volt Output: 24Vac/dc $\pm 15\%$ Current Output: 24Vdc $\pm 15\%$ |
| Ambient Temperature Range: | Housing: -10°C to 50°C Probe: -40°C to 130°C |
| Terminals: | Rising Clamp for 0.5-1.5mm ² Cable |
| Dimensions: | Housing: 92mm diameter x 52mm height Probe: 5mm diameter x 1800, 3600, 6000, 7200mm length (8mm tip diameter) |
| Protection: | IP65 |
| Weight: | 260grams |
| Country of Origin: | United Kingdom |

Order Codes

| | |
|-------------------|---|
| AX-TE-DAVTXAx-18S | Duct averaging temperature transmitter, aluminium, 1800mm probe, side entry |
| AX-TE-DAVTXAx-36S | Duct averaging temperature transmitter, aluminium, 3600mm probe, side entry |
| AX-TE-DAVTXAx-60S | Duct averaging temperature transmitter, aluminium, 6000mm probe, side entry |
| AX-TE-DAVTXAx-72S | Duct averaging temperature transmitter, aluminium, 7200mm probe, side entry |
| AX-TE-DAVTXAx-18B | Duct averaging temperature transmitter, aluminium, 1800mm probe, bottom entry |
| AX-TE-DAVTXAx-36B | Duct averaging temperature transmitter, aluminium, 3600mm probe, bottom entry |
| AX-TE-DAVTXAx-60B | Duct averaging temperature transmitter, aluminium, 6000mm probe, bottom entry |
| AX-TE-DAVTXAx-72B | Duct averaging temperature transmitter, aluminium, 7200mm probe, bottom entry |

Replace x with below letter for choice of sensor

| | |
|-----|--------------------------|
| T | 10K3A1 9 point averaging |
| 100 | PT100 true averaging |
| 1K | PT1000 true averaging |

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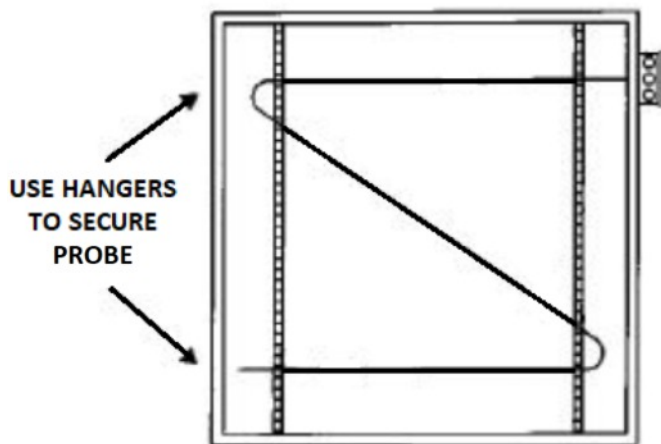


Installation

The AX-TE-DAVTXA sensor should be installed by a suitably qualified technician in accordance with any guidelines for the device and the equipment which 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.

The flexible averaging sensors can be installed onto hangers in the duct using tube clamps or wire ties and should be located in a straight section of duct away from heating, cooling or humidifier elements. The flex duct sensor can be easily shaped to fit duct.

PLACEMENT OF A 12' DUCT AVERAGE SENSOR IN A 48" SQUARE DUCT



Connections

Power should not be connected to the terminals T3 and T4 at the same time. When loop powered the 0-10V output is disabled and the unit controls the supply current between 4 and 20mA. 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 0-5V or 0-10V output.

Loop powered 2 wire current operation

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

3 wire voltage operation

24V ac or dc should be connected to T3:24V and the 0V return to T3:0V. The voltage output is taken from T3:V-OUT.

Jumpers

| J2 | J3 | J5 | J6 |
|----|----|----|----|
| A | D | E | G |
| A | C | E | H |
| A | D | E | H |
| B | D | E | H |
| A | C | F | H |

Output

Temperature Range

0°C to 100°C

-10°C to 40°C

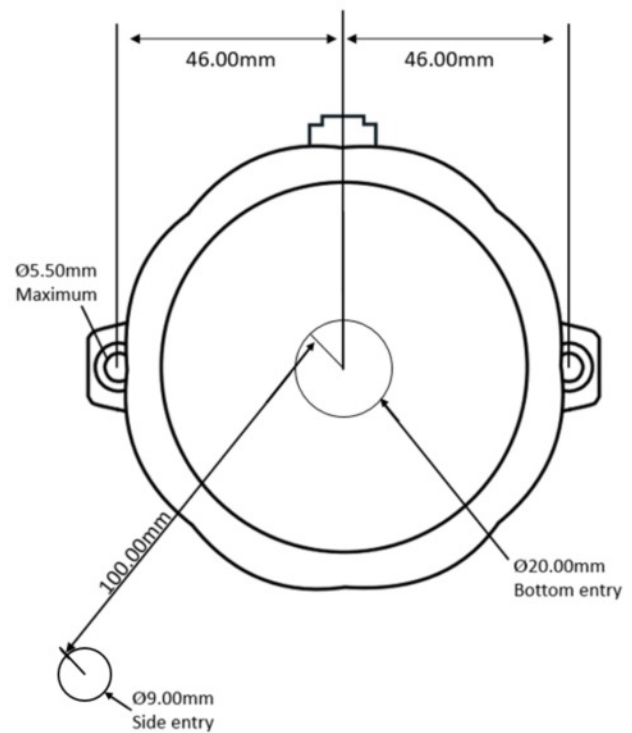
0°C to 50°C

-10°C to 60°C

-20°C to 70°C

Fault Condition

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



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.