

AX-TE-RTX-W & AX-TE-RBNTX-W

Room Temperature Transmitter - Wide Range



Product Overview

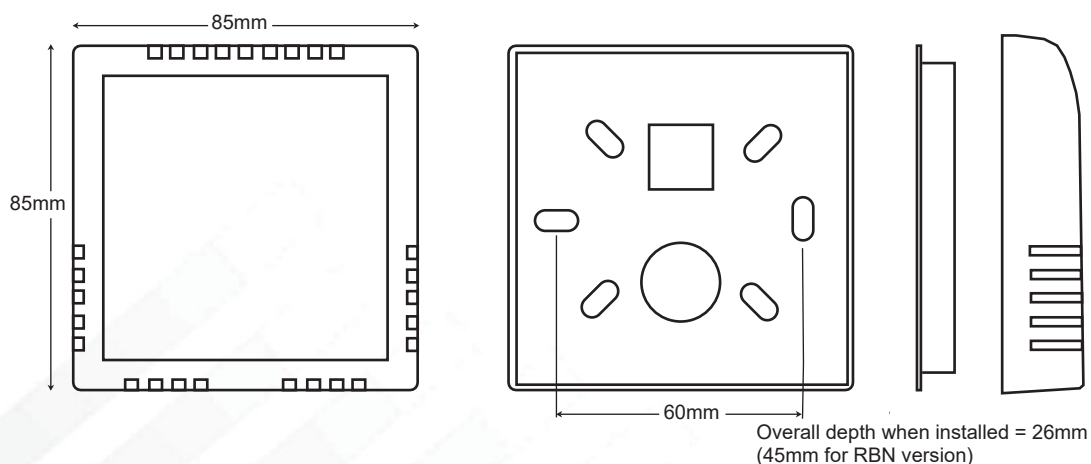
The AX-TE-RTX-W is an Active Room Temperature Transmitter with both 0-10Vdc and Loop Powered 4-20mA outputs.

Features

- Voltage outputs 0-10Vdc or 0-5Vdc
- Loop powered 4-20mA output
- Custom ranges available on request
- Jumper selectable output range & scaling

Product Specifications

Output:	Voltage output mode - 0-10Vdc / 0-5Vdc 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
Terminals:	Rising clamp for 0.5-2.5mm ² cable
Ambient Temperature:	0-50°C
Dimensions:	85 x 85 x 26mm maximum (45mm for RBN version)
Weight:	65g
Country of Origin:	United Kingdom



Order Codes

AX-TE-RTX-W	Room - Wide Range Temperature Transmitter
AX-TE-RBNTX-W	Black Bulb - Wide Range Temperature Transmitter

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Installation

The AX-TE-RTX-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

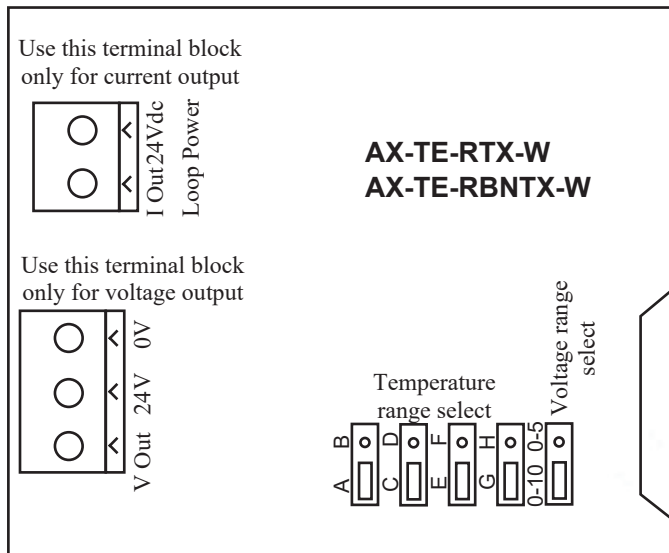
Only make connections to one of the terminal blocks. Only apply power to the unit when all connections and jumper settings have been completed.

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 and 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.

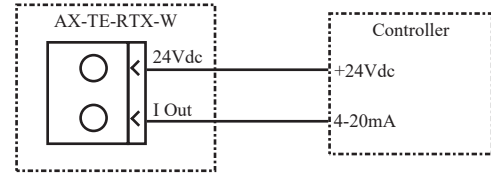
Fault Condition

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

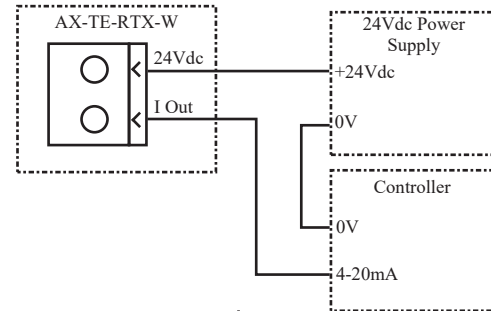


Wiring Examples

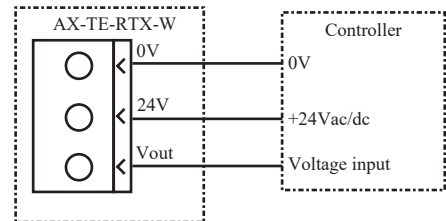
4-20mA output, with power from controller



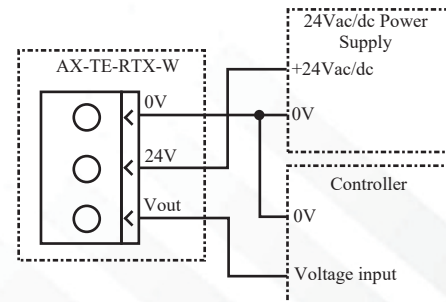
4-20mA output, with external power



Voltage output, with power from controller



Voltage output, with external power



Jumper Positions

Temperature Range

Jumpers	Range
BCEG	0°C to 100°C
ACEH	-10°C to 40°C
ADEH	0°C to 50°C
BDEH	-10°C to 60°C

Other ranges for alternative sensor types

ACFH	-20°C to 70°C
ACEG	-50°C to 50°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
BCEH	-30°C to 160°C

Voltage Output Range

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

Datasheet Contents

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