



## Product overview

The AX-TE-RTX-VI is an Active Room Temperature Transmitter with Voltage and Current outputs. The unit has a 0-5,0-10V,2-10Vdc selectable 3-wire output, and an isolated 4-20mA 2-wire (Loop Powered) output.

The two part enclosure has the connection terminals mounted on the back plate for quick and easy installation.

## Features

- 0-5,0-10,2-10Vdc selectable voltage output
- 4-20mA isolated loop power output
- Terminals on back plate for easy install
- Selectable temperature range

## Product specifications

Supply (for Voltage output):	24Vdc ( $\pm 15\%$ ) at 15mA maximum, 24Vac ( $\pm 15\%$ ) at 30mA maximum
Supply (for Current output):	24Vdc ( $\pm 15\%$ ) at 22mA maximum (in addition to the supply above)
Output Accuracy:	$\pm 0.3^\circ\text{C}$ typical
Output (Voltage):	0-10Vdc, 0-5Vdc, 2-10V dc at 5mA maximum load, jumper selectable
Output (Current):	4-22mA at 500 Ohms maximum load
Output Isolation:	$>100\text{V}$ between Voltage and Current outputs
Output Range:	$-10^\circ\text{C}$ to $+50^\circ\text{C}$ , $0^\circ\text{C}$ to $+50^\circ\text{C}$ , $0^\circ\text{C}$ to $+40^\circ\text{C}$ , jumper selectable
Terminals:	Rising clamp 0.5-1.5mm <sup>2</sup> cable mounted on back plate
Ambient Temperature Range:	$-10^\circ\text{C}$ to $50^\circ\text{C}$ , 0-95% RH
Dimensions, Weight:	87 x 82 x 27mm, 75g - see overleaf for mounting
Enclosure:	IP20 UL94-5VA compliant ABS. Cool white colour
Country of Origin:	United Kingdom

## Order codes

AX-TE-RTX-VI	Room Temperature Dual Transmitter - Isolated voltage and current outputs
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# AX-TE-RTX-VI

Room Temperature Dual Transmitter



## Installation

The AX-TE-RTX-VI range of sensors should be installed by suitably qualified technician in conjunction with any guidelines for the equipment it is to be connected to and any local regulations. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the sensor is being connected to. Anti-static precautions must be observed when handling these transmitters. The PCB contains circuitry that can be damaged by static discharge.

## Connections and setup

Only apply power to the unit when all connections and jumper settings have been completed.

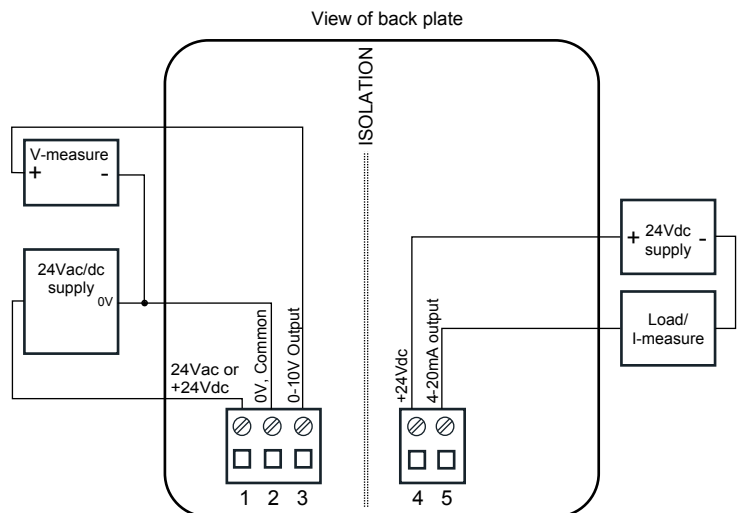
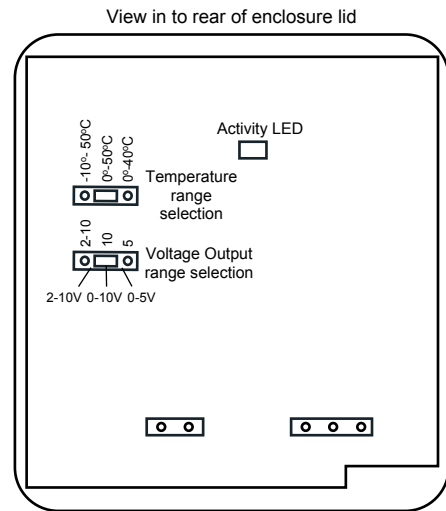
For voltage output use the 3-way terminal block. 24Vac or 24Vdc supply is connected to terminal 1 and the return 0V is connected to terminal 2. The voltage output is taken from terminal 3. The Voltage range jumper is used to select between 0-5V, 0-10V and 2-10V outputs.

For current output use the 2-way terminal block. +24Vdc loop power is connected to terminal 4. The current output is taken from terminal 5 into the measuring device. The low side of the measuring device is connected to the low side of the 24Vdc supply. When using the current output a supply must also be connected to terminals 1 and 2.

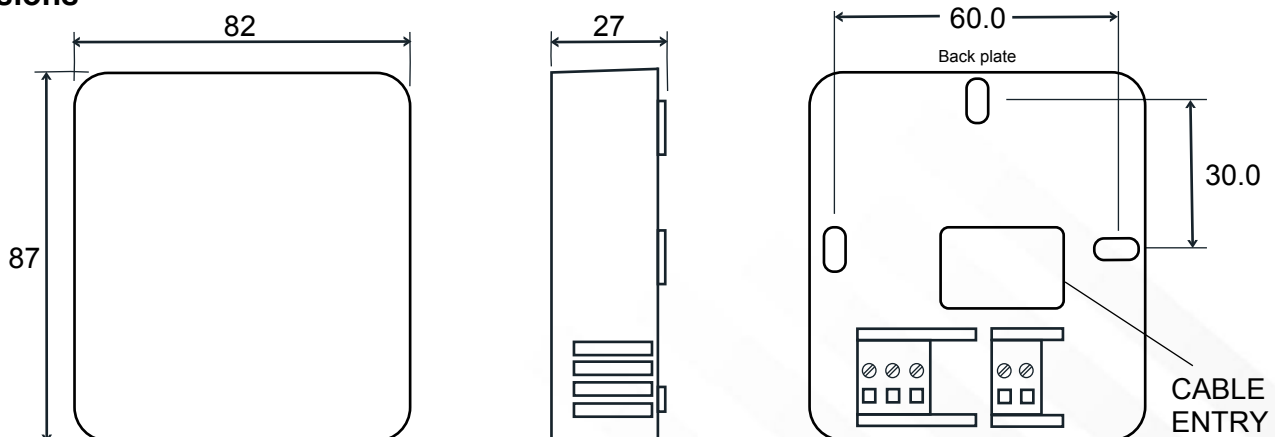
In normal operation the Activity LED will flash approximately every 2 seconds. In the event of a sensor error, this LED will flash rapidly. Sensor errors will also cause the following output conditions:

Current	Voltage range		
	0-5V	0-10V	2-10V
22mA	0V	0V	1V

## Connections



## Dimensions



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