



Features & Benefits

- Wide range of sensor types
- Choice of output type and temperature ranges on one unit
- Custom output range scaling

Technical Overview

The -CVO active output option combines 4 pre-set ranges and selectable output mode, customised output range scaling enabling a choice of outputs and ranges on one unit.

Product Codes

Sensor Type:

TT-518	Thimble Sensor
TT-D	Duct Sensor
TT-DA	Duct Averaging Sensor
TT-TDA	True Duct Averaging Sensor
TT-O	Outside Air Sensor
TT-OR	Outside Air Sensor c/w Radiation Shield
TT-I	Immersion Sensor
TT-IH	High Temp. Immersion Sensor
TT-C	Clamp-on Sensor
TT-CD	Direct Clamp-on Sensor
TT-554	Remote Probe Sensor
TT-555	Flying Lead Sensor

(add type to above code):

-CVO	4-20mA/0-10Vdc selectable output
-CVO-C	4-20mA/0-10Vdc selectable output with custom temp. scaling

Specification

Selectable output type:	0-10Vdc (minimum impedance 2kΩ) 4-20mA (loop powered)
Selectable output range:*	-10 to +40°C -10 to +110°C -10 to +160°C 0 to +400°C
Custom range:*	-40 to +400°C
Supply voltage:	0-10Vdc 24Vac ±15% @ 50Hz or 4-20mA 24Vdc +15% -6% 24Vdc +15% -6%
Accuracy:	
TT-TDA only	
Transmitter	±0.2°C
PRT Element	±0.425°C @ 25°C
Overall	±1.0°C
Others	
Transmitter	±0.2°C
PRT Element	±0.2°C @ 25°C
Overall	±0.4°C
Sensor type:	
TT-TDA only	PT100B
Others	D (PT100A)
Connectors	Terminals for 0.5-2.5mm² cable
Environmental	See corresponding data sheet for sensor type
Country of origin	UK

* Dependent on sensor type

Note:

Please see corresponding temperature datasheet for further specification and full installation instructions.

WEEE Directive:



At the end of the products useful life please dispose as per the local regulations.
Do not dispose of with normal household waste.
Do not burn.



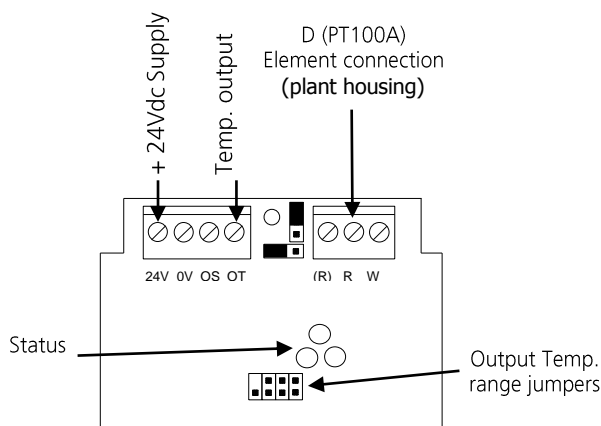
The products referred to in this data sheet meet the requirements of EU Directive 2014/30/EU

Connections

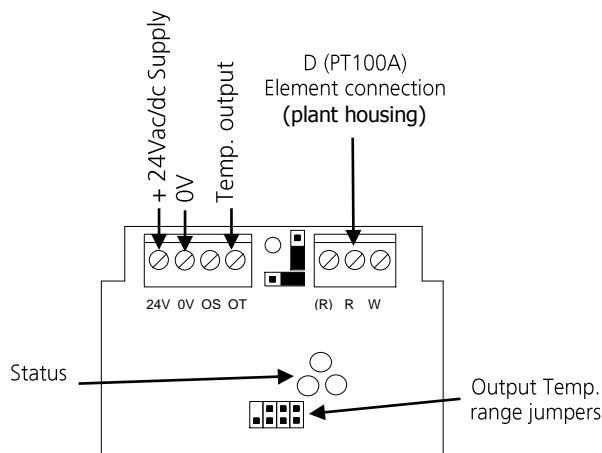


Antistatic precautions must be observed when handling these sensors. The PCB contains circuitry that can be damaged by static discharge.

4-20mA output:



0-10Vdc output:



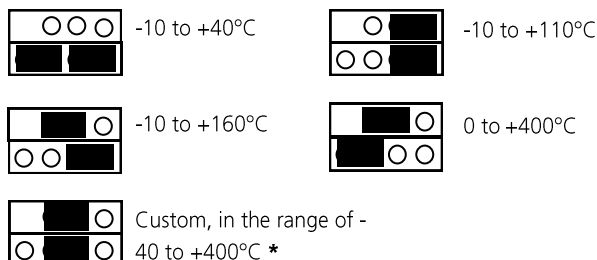
Voltage output Nominal voltage 24Vac/dc.

Current output If using in current output mode, the sensor must only be used with a 24Vdc supply. The sensor may be damaged if supplied with AC.

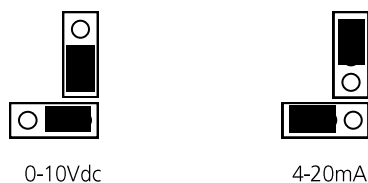
The selectable output temperature ranges are dependent on sensor type, ambient and application.

Jumper Settings

Output temperature range section:



Output signal type:



If the range links are incorrectly set, or missing the output range will default to -10 to +40°C

*** Please see actual sensor data sheets for allowed custom range. This is sometimes limited due to the materials used to construct the sensor**

Factory default jumper positions

- Temperature range -10 to +40°C
- Output signal 0-10Vdc

