



Features & Benefits

- Wide range of sensing element types
- 2m Screened flying lead as standard
- Perfect for tight locations
- Can be used as a duct or immersion sensor

Technical Overview

The TT-554 range of remote probe temperature sensors are perfect for tight locations, hard to access areas or for applications where the usual duct (TT-332) or immersion (TT-341) sensor will not fit. A 150mm probe is used with either the TT-PO-521 or TT-DFP duct flange plate.

Units contain either a high quality thermistor, Platinum or Nickel sensing element. Sensor types compatible with most controls manufacturers' equipment are available.

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

TT-554 Remote probe sensor

Sensing Element (add type to above code)

Passive output:

-A	(10K3A1) Trend, Cylon, Distech
-B	(10K4A1) Andover,
-C	(20K6A1) Honeywell
-D	(PT100a) Serck
-E	(PT1000a) Cylon
-F	(Ni1000a) Sauter
-G	(Ni1000a/TCR(LAN1)) Siemens
-H	(SAT1) Satchwell
-L	(TAC1) TAC
-M	(2.2K3A1) Johnson Controls
-P	(30K6A1) Drayton
-Z	(10K NTC) Carel
-DC	Delta Controls

Active output:

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

Accessories:

TT-DFP	Duct flange plate
TT-PO-521	Stainless steel immersion pocket

Specification

Output types:

Passive	Resistive
Active (selectable)	Current 4-20mA or Voltage 0-10Vdc

Accuracy:

Thermistor	±0.2°C 0 to 70°C
PT100a	±0.2°C @ 25°C
PT1000a	±0.2°C @ 25°C
NI1000	±0.4°C @ 0°C
-CVO	±0.4°C @ 25°C

Probe:

Material	Stainless steel
Dimensions	150 x 6mm

Lead length

2m

Protection

IP65

Ambient range

-10 to +70°C

Weight

125g

Country of origin

UK



The TT-554-CVO products referred to in this data sheet meet the requirements of EU Directive 2014/30/EU

Installation

Duct Mounting:

1. Select a location in the duct where the sensor probe will give a representative sample of the prevailing air condition.
2. Using the TT-DFP. Drill a 7mm diameter hole and use the flange as a template to mark the hole centres. Drill then using the screws supplied fix to the duct. Insert the probe to the desired depth and tighten the grub screw.

Immersion:

1. In a suitable accessible location, fit a ½" BSPT boss. Care should be taken to ensure that the pocket/sensor tip in centre of the flow for accurate temperature measurement.
2. Apply thread seal sealant and screw the TT-PO-521 pocket in to the boss and tighten.
3. Insert the remote sensor probe into the pocket and tighten the grub screw to retain the sensor.

Connections

All connections to BEMS controllers, data recorders etc. should be made using screened cable. Normally, the screen should be earthed at one end only (usually the controller end) to avoid earth hum loops which can create noise. Low voltage signal and supply cables should be routed separately from high voltage or mains cabling. Separate conduit or cable trays should be used. Where possible, the controller's earth should be connected to a FUNCTIONAL EARTH, rather than the mains safety earth. This will provide better immunity to high frequency noise. Most modern buildings have a separate earth for this purpose.

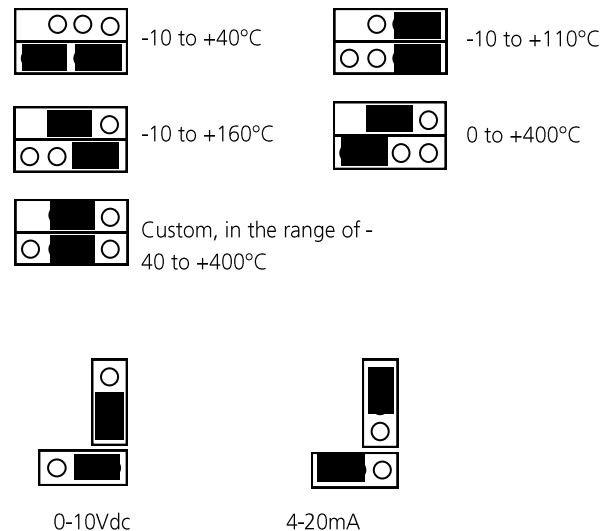
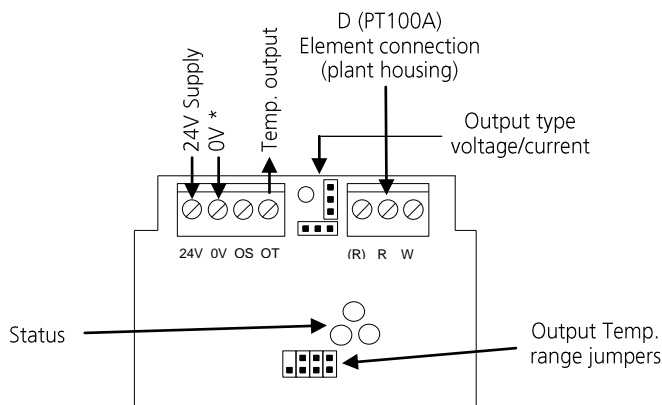
Thermistor:

The pre-stripped 2-wire connections are polarity independent and should be terminated as required. No terminal block is provided.

Platinum and nickel types:

The pre-stripped 2 or 3-wire connections are polarity independent and should be terminated as required. No terminal block is provided.

Active output:



* Not required with 4-20mA output

Notes:

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. For full connection and specification please refer to the TT-CVO data sheet.

Whilst every effort has been made to ensure the accuracy of this specification, Sontay cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

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