

T-PS PRT Temperature Sensor



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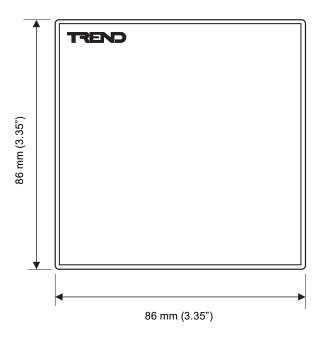
Description

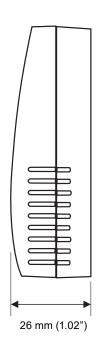
The T-PS PRT Room Temperature sensor provides an accurate way of measuring room temperature, in a low profile enclosure designed for good thermal response. The electronics are fully enclosed in a well ventilated housing which clips onto a separate backplate for ease of installation.

Features

- Pt 100 accuracy.
- 4 to 20 mA output.
- Precalibrated for ease of commissioning.

Physical





T-PS Data Sheet

FUNCTIONALITY

Housing

The T-PS is suitable for mounting on a wall, and can be mounted on either a standard electrical back box or a flat surface.

Sensor

The T-PS sensor provides a standard PRT sensing element (100 Ω ±0.1% @ 0 °C (32°F)). The output requires a 24 Vdc supply and provides a 4 to 20 mA signal over the range -10 °C to +40 °C (14°F to 104 °F).

INSTALLATION

Choose an accessible location for the sensor where the surrounding air temperature is representative of the room. The backplate is designed so that it can be mounted on a recessed wiring box, or surface mounted with mini-trunking by knocking out a section of one side wall.

Choose location Mount sensor (via two screws - minimum) Connect terminals Assemble sensor unit
Set up strategy

Test

For full installation details see T-PS Installation Instructions (TG200760).

DISPOSAL

COSHH (Control of Substances Hazardous to Health - UK Government Regulations 2002) ASSESSMENT FOR DISPOSAL OF T-PS. No parts affected.

RECYCLING. All plastic and metal parts are recyclable. The printed circuit board may be sent to any PCB recovery contractor to recover some of the components for any metals such as gold and silver.



WEEE Directive:

At the end of their useful life the packaging, product, and battery (if fitted) should be disposed of by a suitable recycling centre.

Do not dispose of with normal household waste. Do not burn.

ORDER CODES

T-PS PRT Space Temperature Sensor

SPECIFICATIONS

PRT range :-10 (14°F) to +40 °C (104 °F)

Accuracy PRT element :Platinum RTD, 100 Ω @ 0 °C (32 °F)

DIN EN60751 (according to IEC 751)

Class A. dt= ±(0.15+0.002.|t|) °C

Accuracy transmitter :0.2 % span.
Output :4 to 20 mA 2 wire

Ambient limits : -10 °C (14 °F) to +50 °C (122 °F) Enclosure material :Flame retardant (V0) ABS

Dimensions :86 mm (3.35") x 86 mm (3.35") x 26

mm

Connections :1 part screw terminals for 0.5 to 2.5

mm² (14 to 20 AWG) cable

Supply Voltage :24 Vdc ±15% Current :4 to 20 mA Input Channel and sensor scaling

For input channel scaling see T-PS PRT Temperature Sensor Installation Instructions (TG200760)

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