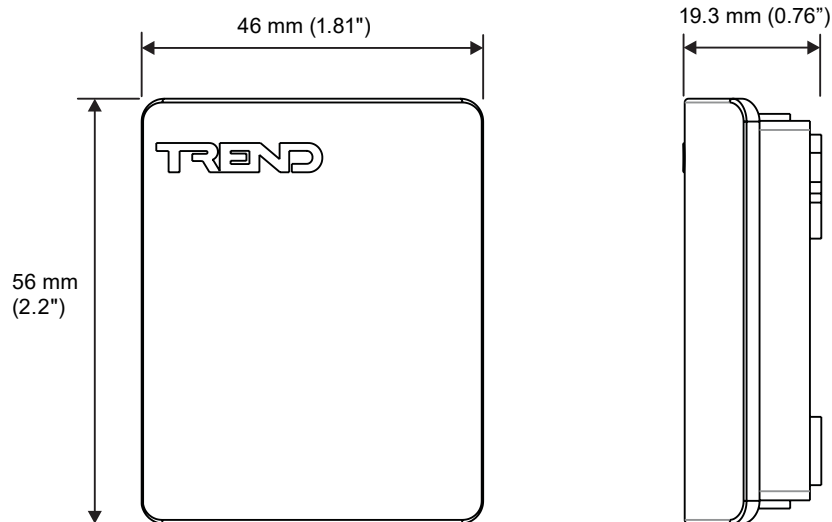**TS/TS**
Thermistor Room Temperature Sensor

Description

The TS/TS Thermistor Temperature Sensor is a wall-mounted thermistor room temperature sensor in a compact enclosure designed for good thermal response.

Features

▪ Mounts directly onto surface
▪ Operating range 6 to 40°C (43 to 104°F)
▪ CE approved
▪ IP30 housing
▪ Compact

Physical

FUNCTIONALITY

Housing: The TS/TS sensor is suitable for mounting on a wall. It consists of a clip-on cover and a base unit which contains the 10 kΩ thermistor connected to a terminal block.

The cover can be easily sprung off by applying simultaneous pressure to the right and left sides at the top and bottom of the front cover.

INSTALLATION

Mount the sensor on an inside wall approximately 1.3 m (54") from the floor (or in the specified location) to allow exposure to the average zone temperature. Maintain a mounting clearance of approx. 10 cm (4") to both sides of the sensor in order to allow free airflow.

Do not mount the sensor on an outside wall, on a wall containing water pipes, or near air ducts. Avoid locations exposed to discharge air or radiation from lights, appliances, or the sun.

Keep wiring at least 305 mm (1 ft.) away from large inductive loads such as motors, line starters, lighting ballasts, and large power distribution panels. Run sensor wiring separately from 50 Vac or greater power wiring.

The sensor can be mounted directly onto walls (see fixing centres diagram above), in which case the type of screws appropriate to the wall material should be used.

Choose location
Mount sensor to surface using 3 screws – not supplied (hole Ø 3.25 mm / 0.12")
Connect terminals

Assemble sensor
Set up strategy
Test

For full installation details see TS/TS Installation Instructions (TG201167).

ORDER CODES

TS/TS/BOX5   Box of 5 off TS/TS 10 kΩ thermistor room temperature sensors

DISPOSAL

COSHH (Control of Substances Hazardous to Health - UK Government Regulations 2002) ASSESSMENT FOR DISPOSAL OF TS/TS Temperature Sensor.

RECYCLING ♲.
All plastic and metal parts are recyclable.

WEEE Directive:

At the end of their useful life the packaging and product should be disposed of by a suitable recycling centre.
Do not dispose of with normal household waste.
Do not burn.

SPECIFICATIONS

ELECTRICAL

Thermistor	:10 kΩ at 25 °C (77 °F) (Trend standard thermistor sensor)
Temperature range	:0 to 40 °C (32 to 104 °F)
Temperature accuracy	:(of sensor) ±0.44 °C, ±0.79 °F (0 °C to 40 °C, 32 °F to 104 °F)

System Accuracy (including controller):
    ±0.9 °C, ±1.62 °F (0 °C to 40 °C, 32 °F to 104 °F)

MECHANICAL

Dimensions	:56 x 46 x 19.3 mm (2" x 1 9/16" x 3/4")
Temperature	
Operating	:6 to 40 °C (+43 to +104 °F)
Storage	:-40 to +65 °C (-40 to +150 °F)
Relative humidity	:5% to 95% RH non-condensing
Connections	:Sprung terminal terminal block 1.5 to 0.34 mm² cross-sectional area (16 to 22 AWG)
Protection	:IP30
EMC	:EN61326-1:2006

Input Channel and Sensor scaling

For input channel scaling see TS/TS Installation Instructions (TG201167).

Trend Control Systems Limited
St. Mark's Court, North Street, Horsham, West Sussex, RH12 1BW, UK. Tel: +44 (0)1403 211888, www.trendcontrols.com