

FEATURES

- High stability sensing element with a precision output
- IEC 60751 Class B accuracy/tolerance
- Temperature measurement range of -50°C to 250°C
- 4 lead wires for accurate readings
- Leads connect to any 2 3 or 4 wire PT100 instrument
- Rigid 316 corrosion resistant stainless steel sheath for protection of sensing element
- Flexible Teflon insulation provides thermal and electrical insulation
- Screened cable for protection against electromagnetic interference

RS PRO 4 wire PT100 Sensor, -50°C min +250°C max, 25mm Probe Length x 4mm Probe Diameter

RS Stock No.: 123-5588



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

From RS Pro a high-quality and reliable Pt100 PRT (Platinum Resistance Thermometer) or RTD (Resistance Temperature Detector) sensing probe. This RTD probe has a robust construction with the sensing element encased in a rigid 316 stainless steel sheath. The leads have a durable and flexible Teflon insulation and are screened for protection against electromagnetic interference. This platinum resistance thermometer provides accurate and reliable temperature measurement for a wide range of applications.

General Specifications

Sensor Type	PT100
Probe Material	Stainless Steel
Number Of Wires	4
Accuracy	Class B
Construction	3.0, 4.0, 4.5 or 6.0mm diameter 316 stainless steel sheath.
Vibration Resistant	Yes
Tolerance	Class B
Applications	These Pt100 PRT sensor probes with their robust design are ideal for use in many general purpose industrial applications including the following: Automotive industry, Chemical industry, Micro-electronics, Air conditioning and refrigeration, Air, gas and liquid temperature measurement, Food processing, Laboratories

Electrical Specifications

Ice point resistance	100Ω
Fundamental interval (0°C to 100°C)	38.5Ω (nominal)
Self-heating	<0.5°C/mW
Stability	±0.05%
Measuring current	1mA

Mechanical Specifications

Probe Length	25mm
Probe Diameter	4mm
Termination Type	4-wire tails – allows connection to any PT100 instrument 2, 3 or 4 wire
Cable Length	2m
Process Connection	Probe
Extended lead wires	1 or 2 metre flexible Teflon® insulated, screened
Sheath	316 Stainless steel

Operation Environment Specifications

Minimum Temperature Sensed	-50°C
Maximum Temperature Sensed	250°C

Approvals

Compliance/Certifications	IEC751
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Probe Diameter	Probe Length	Cable Length	RS Order Number
3mm	150mm	1 m	362-9935
3mm	250mm	1 m	362-9941
6mm	150mm	1 m	236-4261
6mm	250mm	1 m	236-4277
3mm	25mm	2 m	123-5583
3mm	50mm	2 m	123-5584
3mm	100mm	2 m	123-5585
3mm	125mm	2 m	123-5586
3mm	150mm	2 m	123-5587
4mm	25mm	2 m	123-5588
4mm	50mm	2 m	123-5589
4mm	100mm	2 m	123-5590
4mm	150mm	2 m	123-5591
4mm	200mm	2 m	123-5592
4.5mm	25mm	2 m	123-5593
4.5mm	50mm	2 m	123-5594
4.5mm	75mm	2 m	123-5595
4.5mm	100mm	2 m	123-5596
4.5mm	125mm	2 m	123-5597
4.5mm	150mm	2 m	123-5598
4.5mm	200mm	2 m	123-5599
6mm	50mm	2 m	123-5600
6mm	75mm	2 m	123-5601
6mm	100mm	2 m	123-5602
6mm	125mm	2 m	123-5603
6mm	150mm	2 m	123-5604
6mm	200mm	2 m	123-5605
6mm	300mm	2 m	123-5606