FEATURES

- **High stability sensing element with a precision output**

- **Temperature measurement range of -50 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**

RS PRO 4 wire PT100 Sensor, -50°C min +250°C max, 100mm Probe Length x 3mm Probe Diameter

RS Stock No.: 123-5585

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
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: Plastics processing, Chemical industry, Stoves and grills, Air conditioning and refrigeration, Air, gas and liquid temperature measurement, Food processing, Laboratories

Electrical Specifications

Ice point resistance	100Ω

Mechanical Specifications

Probe Length	100mm
Probe Diameter	3mm
Termination Type	4-wire tails – allows connection to any PT100 instrument 2, 3 or 4 wire
Cable Length	2m
Extended lead wires	1 or 2 metre flexible Teflon insulated, screened
Process Connection	Probe
Sheath	Stainless steel

Operation Environment Specifications

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

Approvals

Compliance/Certifications	IEC751

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