

FEATURES

- High stability sensing element with a precision output
- IEC 60751 Class B accuracy/tolerance
- Temperature measurement range of -50°C to 200°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

RS PRO 4 wire PT100 Sensor, -50°C min +200°C max, 25mm Probe Length x 3mm Probe Diameter

RS Stock No.: 762-1134



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 twisted leads are 4 core with a durable and flexible Teflon insulation. 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	Insulated element in a 3.0 or 4.0mm diameter 316 stainless steel probe
Tolerance	Class B
Applications	These 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	3mm
Termination Type	4-wire tails
Cable Length	1m
Process Connection	Probe
Reel Length	10 metres
Extended lead wires	1 metre Teflon® insulated 4 core twisted lead
Sheath	Stainless steel

Operation Environment Specifications

Minimum Temperature Sensed	-50°C
Maximum Temperature Sensed	200°C

Approvals

Compliance/Certifications	IEC751
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Probe dimensions (dia. x length)	Product code	Allied	RS order code
3mm x 25mm	RAA-S4B-3.0-25-NP-1.0-C5-T	70651745	762-1134
3mm x 50mm	RAA-S4B-3.0-50-NP-1.0-C5-T	70651748	762-1143
3mm x 100mm	RAA-S4B-3.0-100-NP-1.0-C5-T	70636467	158-985
4mm x 25mm	RAA-S4B-4.0-25-NP-1.0-C5-T		123-5607
4mm x 40mm	RAA-S4B-4.0-40-NP-1.0-C5-T		123-5608
4mm x 65mm	RAA-S4B-4.0-65-NP-1.0-C5-T		123-5609
4mm x 90mm	RAA-S4B-4.0-90-NP-1.0-C5-T		123-5610
4mm x 125mm	RAA-S4B-4.0-125-NP-1.0-C5-T		123-5611