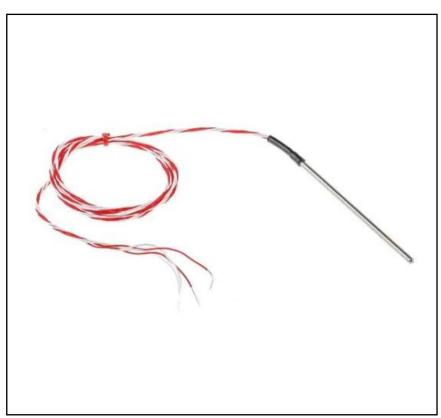# FEATURES

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

- **IEC 60751 Class B accuracy/tolerance**

- **Temperature measurement range of -50° 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, 100mm Probe Length x 3mm Probe Diameter

RS Stock No.: 158-985

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: Plastics processing, Chemical industry, Stoves and grill, 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
Cable Length	1m
Process Connection	Probe
Extended lead wires	1 metre Teflon® insulated 4 core twisted leads
Sheath	Stainless steel

Operation Environment Specifications

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

Approvals

Compliance/Certifications	IEC751

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