

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
- Silicone rubber insulation can withstand a wide temperature range and offers flexibility

RS PRO 4 wire PT100 Sensor, -50°C min +200°C max, 100mm Probe Length x 6mm Probe Diameter

RS Stock No.: 611-8264



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 silicone rubber 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	6.0mm diameter 316 stainless steel sheath.
Vibration Resistant	Yes
Tolerance	In accordance with IEC 60751 W0.15 (Class A) -100°C to 450°C W0.3 (Class B) -196°C to 660°C
Applications	This sensor has a variety of application use such as; Process industry, Laboratories, Chemical industry, Plastics processing, Stoves and grills, Air, gas and liquid temperature measurement, Exhaust gas temperature measurement

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

Patch dimensions	100mm x 100mm
Probe Length	100mm
Probe Diameter	100mm
Termination Type	Cable
Cable Length	2m
Process Connection	Probe
Extended lead wires	2 metres flexible silicone rubber insulated, 7/0.2mm
Sheath	Rigid 316 stainless steel sheath, 6.0mm diameter

Operation Environment Specifications

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

Approvals

Compliance/Certifications	IEC
Hazardous Area Certification	IEC 60751 Class B



Probe Diameter	Probe Length	Cable Length	Allied code	RS Order Number
6mm	50mm	2 metres	70644349	455-3968
6mm	100mm	2 metres	70646193	611-8264

Type	Conductors	mm ²	Cores (4 core)	Jacket	Reel Length	Allied Code	RS order Code
RTD	7/0.2mm	0.219	2x Red / 2 x White	Brown	10 metres	70657147	827-5823
RTD	7/0.2mm	0.219	2x Red / 2 x White	Brown	25 metres	70644361	455-4242

Overall sheath Dimension (approx.)

4.0mmØ