

## 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, 50mm Probe Length x 6mm Probe Diameter

RS Stock No.: 455-3968



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

<b>Sensor Type</b>	PT100
<b>Probe Material</b>	Stainless Steel
<b>Number Of Wires</b>	4
<b>Accuracy</b>	Class B
<b>Construction</b>	6.0mm diameter 316 stainless steel sheath
<b>Applications</b>	These PRT sensor probes with their robust design are ideal for use in many general purpose industrial applications including the following: Air conditioning and refrigeration, Air, gas and liquid temperature measurement, Food processing, Laboratories, Chemical industry, Plastics processing, Stoves and grills

## Electrical Specifications

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

## Mechanical Specifications

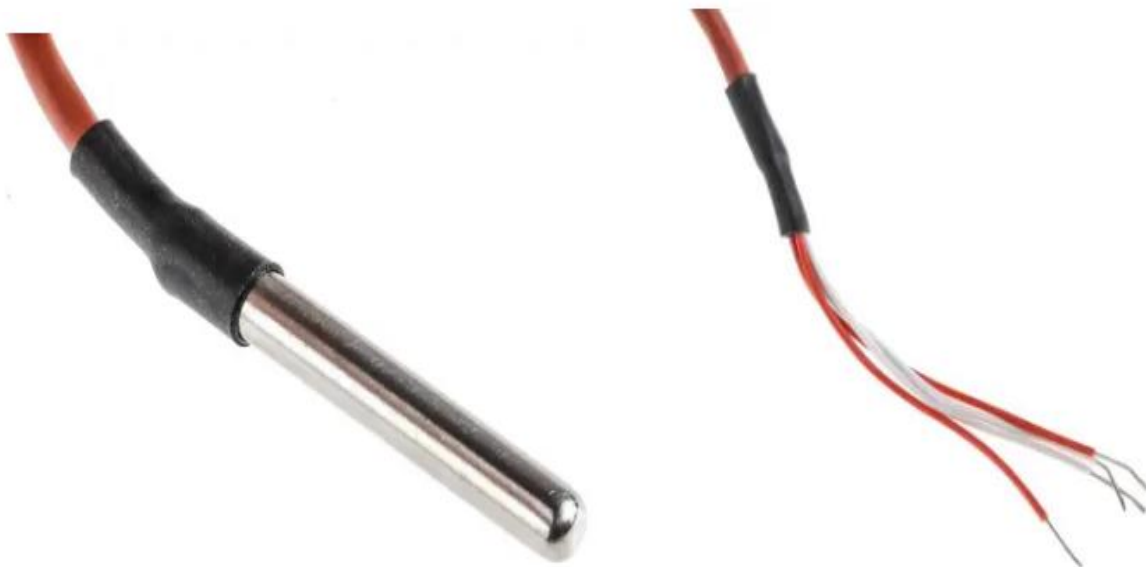
<b>Probe Length</b>	50mm
<b>Probe Diameter</b>	6mm
<b>Termination Type</b>	4-wire tails – allows connection to any PT100 instrument 2, 3 or 4 wire
<b>Cable Length</b>	2m
<b>Process Connection</b>	Probe
<b>Sheath</b>	316 Stainless steel
<b>Immersion Effect</b>	Suitable for surface & immersion applications where protected

## Operation Environment Specifications

<b>Minimum Temperature Sensed</b>	-50°C
<b>Maximum Temperature Sensed</b>	200°C

## Approvals

<b>Compliance/Certifications</b>	IEC751 Class A, B
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<b>Probe Diameter</b>	<b>Probe Length</b>	<b>Cable Length</b>	<b>Allied code</b>	<b>RS Order Number</b>
6mm	50mm	2 metres	70644349	<b>455-3968</b>
6mm	100mm	2 metres	70646193	<b>611-8264</b>