

## FEATURES

- High stability sensing element with a precision output
- IEC 60751 Class B accuracy/tolerance
- Self-adhesive silicone patch for mounting onto a surface
- Silicone patch offers durability and resistance to many oils and chemicals
- Teflon insulated leads for thermal and electrical insulation
- Temperature measurement range of -50°C to 150°C
- 4 lead wires for accurate readings

## RS PRO 4 wire PT100 Sensor, -50°C min +150°C max, 40mm Probe Length x 13mm Probe Diameter

RS Stock No.: 285-661



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). This Pt100 RTD has a sensing element that is encased in silicone rubber patch so it can be used to measure the temperatures on surfaces. 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

<b>Sensor Type</b>	Pt100
<b>Probe Material</b>	Aluminium Foil Backing, Silicone Rubber
<b>Number Of Wires</b>	4
<b>Accuracy</b>	Class B
<b>Construction</b>	Element encapsulated in a silicone rubber patch with self-adhesive aluminium foil backing
<b>Vibration Resistant</b>	Yes
<b>Applications</b>	These Pt100 PRT silicone patch sensors with their compact and versatile design are most commonly used in pipe or surface measurement

## 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>Patch dimensions</b>	Length 40mm x Width 13mm x Height 5mm
<b>Probe Length</b>	40mm
<b>Probe Diameter</b>	13mm
<b>Termination Type</b>	4 wire tails
<b>Cable Length</b>	2m
<b>Process Connection</b>	Patch Sensor
<b>Reel Length</b>	10m or 25 metre reel
<b>Extended lead wires</b>	Teflon® insulated, 7/0.2mm twisted 4 core and tails (2 or 5 metre lengths available)

## Operation Environment Specifications

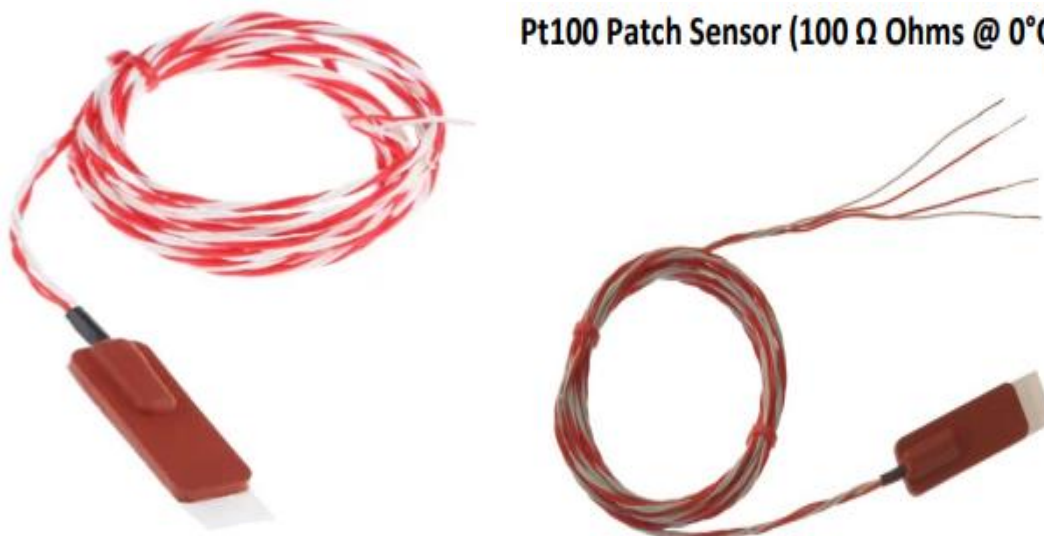
<b>Minimum Temperature Sensed</b>	-50°C
<b>Maximum Temperature Sensed</b>	500°C

## Approvals

<b>Compliance/Certifications</b>	IEC60751
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## Pt100 Patch Sensor (100 $\Omega$ Ohms @ 0°C)



Product code	Cable length	Allied Code	RS order code
RTF-100-S4B-2.0-C8	2 metres	70637793	<b>285-661</b>
RTF-100-S4B-5.0-C8	5 metres	70651746	<b>762-1137</b>

