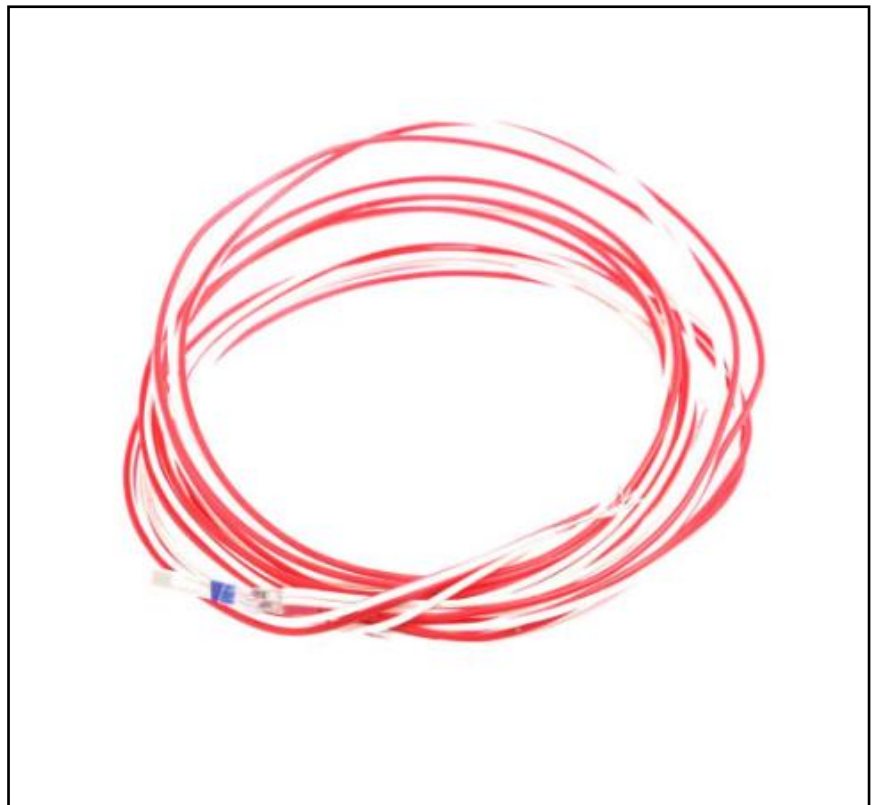


FEATURES

- Fast response time
- 300mm, 500mm or 1000mm extended lead lengths that are insulated with Teflon
- Temperature range of -50°C to 250°C
- Vibration resistant
- 2 or 4 wire configurations
- 2mm probe diameter and 10mm probe length
- Available with either a PT100 or PT1000 sensor

RS PRO 4 wire PT100 Sensor, -50°C min $+250^{\circ}\text{C}$ max, 10mm Probe Length x 2mm Probe Diameter

RS Stock No.: 891-9145



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, comes a range of high-performance platinum resistance detectors with extended leads. Constructed with Class A or B thin film, these probes are an excellent solution for temperature measurement.

General Specifications

Sensor Type	PT100
Probe Material	Platinum
Number Of Wires	4
Accuracy	Class A
Response Time	Fast response time
Construction	Thin film, platinum film on ceramic substrate
Vibration Resistant	Yes
Tolerance	Class A
Applications	These platinum resistance detectors offer fantastic and suitable protection/sheathing required for immersion into fluids, corrosive substances, processes, etc

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	10mm
Probe Diameter	2mm
Termination Type	Lead Wire
Cable Length	1m
Process Connection	Probe
Reel Length	10meters or 25metres reel
Extended lead wires	2 or 4 wire, Teflon® insulated, stranded conductors, 300, 500 or 1000mm longs

Operation Environment Specifications

Minimum Temperature Sensed	-50°C
Maximum Temperature Sensed	250°C

Approvals

Compliance/Certifications	Conforms to IEC 60751:2008 / BS EN 60751:2008
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Thin Film, Pt100 Ohm and Pt1000 Ohm – order codes:

Resistance	Detector Dimensions (Width x length)	Tolerance Class	No. of Wires	Lead Length/Gauge (Teflon Insulated)	RS order code
Pt100	2 x 10mm	Class B	2	300mm / 24awg	891-9132
Pt100	2 x 10mm	Class B	2	500mm / 24awg	891-9135
Pt100	2 x 10mm	Class B	2	1000mm / 24awg	891-9139
Pt100	2 x 10mm	Class A	4	300mm / 26awg	891-9148
Pt100	2 x 10mm	Class A	4	500mm / 26awg	891-9141
Pt100	2 x 10mm	Class A	4	1000mm / 26awg	891-9145
Pt1000	2 x 10mm	Class B	2	300mm / 24awg	891-9154
Pt1000	2 x 10mm	Class B	2	500mm / 24awg	891-9157
Pt1000	2 x 10mm	Class B	2	1000mm / 24awg	891-9151