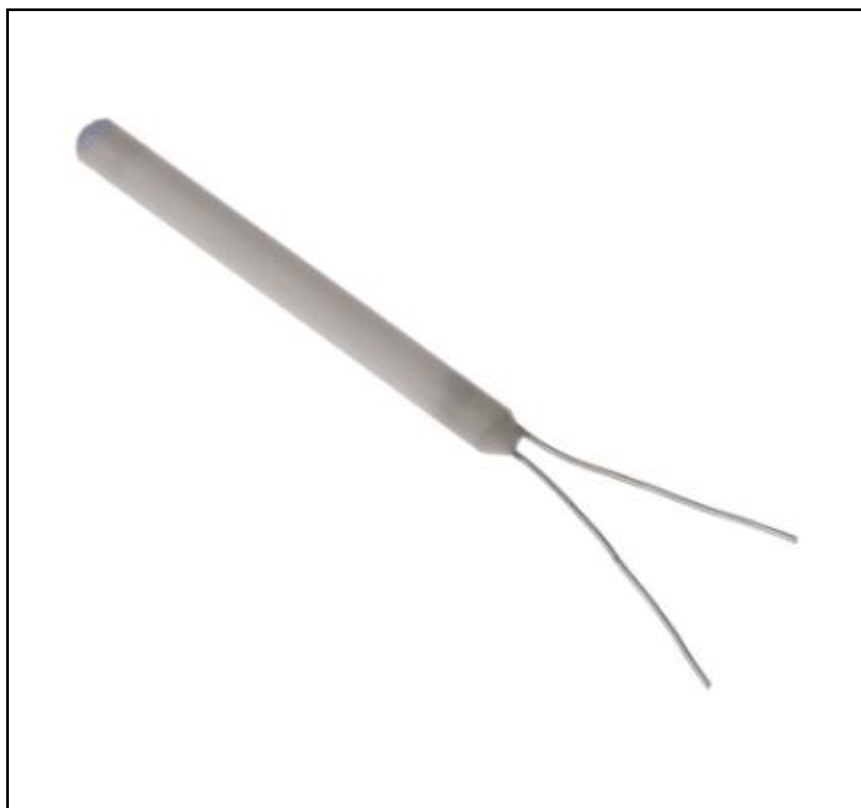## FEATURES

- **Long-term stability**

- **High accuracy**

- **Wide temperature measurement range of -200 to 650°C**

- **2 lead wires**

- **Cylindrical shape ideal for insertion into housing or sheath**

RS PRO PT100 Sensor, -200°C min +650°C max, 15mm Probe Length x 1.5mm Probe Diameter

RS Stock No.: 611-7867

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) wire wound platinum sensing element. The cylindrical shape of this wire wound element makes it ideal for housing within a protective metal tube or sheath. This wire wound Pt100 sensor is designed for optimum performance and stability and provides an accurate and reliable temperature measurement for a wide range of applications.

General Specifications

Sensor Type	PT100
Probe Material	Platinum
Accuracy	Class B
Response Time	0.4s
Construction	Wire-Wound, 10mm tails
Vibration Resistant	No
Tolerance	Class B , In accordance with IEC 60751 W0.15 (Class A) -100°C to 450°C W0.3 (Class B) -196°C to 660°C
Applications	These wire wound temperature sensor elements are suitable for use in a wide range of applications and industries: Automotive industry, Chemical industry, Micro-electronics, Air conditioning and refrigeration, Air, gas and liquid temperature measurement, Food processing, Laboratories

Electrical Specifications

Ice point resistance	100Ω
Fundamental interval (0°C to 100°C	38.5Ω (nominal)
Self-heating	0.02 to 0.3°C/mW
Stability	Optimum
Measuring current	1mA

Mechanical Specifications

Probe Length	15mm
Probe Diameter	1.5mm
Termination Type	Solder
Process Connection	Probe
Sheath	Metal

Operation Environment Specifications

Minimum Temperature Sensed	-200°C
Maximum Temperature Sensed	650°C

Approvals

Compliance/Certifications	IEC60751
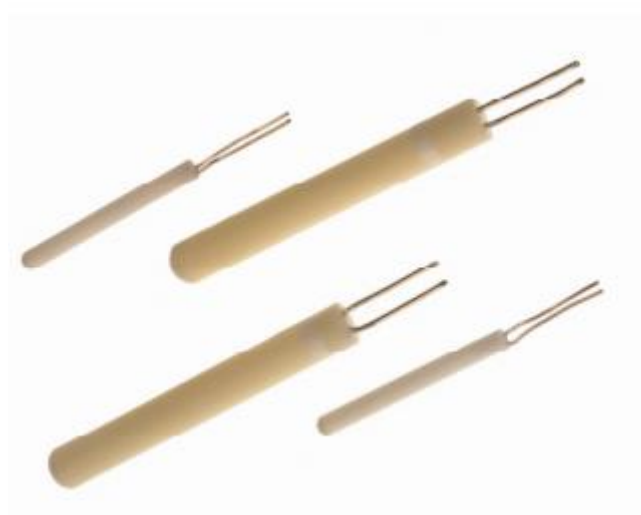
Single element:

Resistance	Tolerance Class	Diameter ('D')	Length ('L')	Allied code	RS order code
Pt100	Class B	1.5mm	8mm	70646153	611-7851
Pt100	Class A	1.5mm	8mm	70646155	611-7873
Pt100	Class B	0.9mm	15mm		174-1654
Pt100	Class A	0.9mm	15mm		174-1656
Pt100	Class B	1.5mm	15mm	70646154	611-7867
Pt100	Class A	1.5mm	15mm	70646151	611-7839
Pt100	Class B	1.5mm	25mm		174-1655
Pt100	Class A	1.5mm	25mm		174-1657
Pt100	Class B	2.8mm	15mm	70646150	611-7823
Pt100	Class A	2.8mm	15mm	70646152	611-7845
Pt100	Class B	2.8mm	25mm	70646147	611-7794
Pt100	Class A	2.8mm	25mm	70646149	611-7817

Dual element:

Resistance	Tolerance Class	Diameter ('D')	Length ('L')	Allied code	RS order code
Pt100 (x2)	Class A	1.5mm	15mm	70643873	397-1595
Pt100 (x2)	Class B	1.5mm	15mm		174-1658
Pt100 (x2)	Class A	2.8mm	15mm		174-1660
Pt100 (x2)	Class B	2.8mm	25mm		174-1659
Pt100 (x2)	Class A	2.8mm	25mm		174-1661