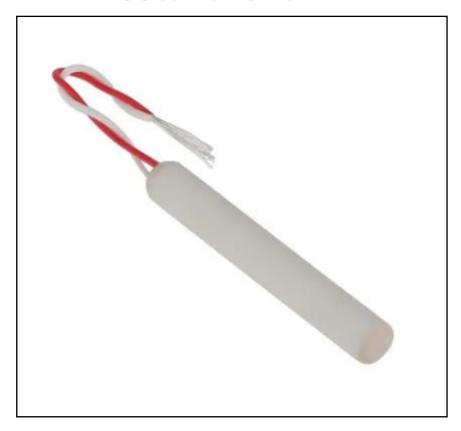## FEATURES

- **High stability thin film sensing element with a precision output**

- **IEC 60751 Class B accuracy/tolerance**

- **Protective ceramic sheath**

- **Stock numbers 237-1657 and 237-1635 have a 4 wire output for an accurate reading**

RS PRO 2 wire PT100 Sensor, -50°C min +250°C max, 35mm Probe Length x 5mm Probe Diameter

RS Stock No.: 237-1641

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) thin film sensing element encased in a ceramic housing or sheath. This PRT sensing element is designed to be installed into a probe sheath or other equipment and provides accurate and reliable temperature measurement for a wide range of applications.

General Specifications

Sensor Type	PT100
Probe Material	Platinum
Number Of Wires	2
Accuracy	Class B
Construction	Thin film Pt100 element housed/potted in a ceramic sheath, 5mm dia. x 35mm long
Tolerance	Class B
Applications	These thin film PRT sensors are suitable for surface and immersion applications where protected. Their flat design means they offer a minimally intrusive means of measuring temperatures on flat surfaces. Applications and industries include the following: Plastics processing, Chemical industry, Stoves and grills, 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	<0.5°C/mW
Stability	±0.05%
Measuring current	1mA

Mechanical Specifications

Probe Length	35mm
Probe Diameter	5mm
Termination Type	Lead Wire
Process Connection	Probe
Reel Length	7/0.2mm SPC Teflon
Sheath	Ceramic Sheathed

Operation Environment Specifications

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

Approvals

Compliance/Certifications	IEC 751

Ordering information:

Ceramic Dia Ø	Ceramic Length	No. of Wires	Lead/Wire Type	Lead Length	Allied Code	RS order code
5mm	35mm	2 wire	7/0.2mm SPC Teflon	50mm	70641766	**237-1641**
5mm	35mm	4 wire	7/0.2mm SPC Teflon	450mm	70641767	**237-1657**
5mm	35mm	4 wire	1/0.4mm Nickel + Glass*	450mm	70641765	**237-1635**
5mm	35mm	2 wire	1/0.4mm Nickel	10mm	70641764	**237-1629**