**RS**
PRO

FEATURES

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

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

- **Flat stainless steel sheath for sensor element protection and measuring surface temperatures**

- **Temperature measurement range of -50°C to 250°C**

- **Teflon insulated leads for thermal and electrical insulation, impact strength and protection against moisture, corrosion and abrasive chemicals even in extreme temperatures**

RS PRO 2 wire PT100 Sensor, -50°C min +250°C max, 35mm Probe Length x 6mm Probe Diameter

RS Stock No.: 237-1613
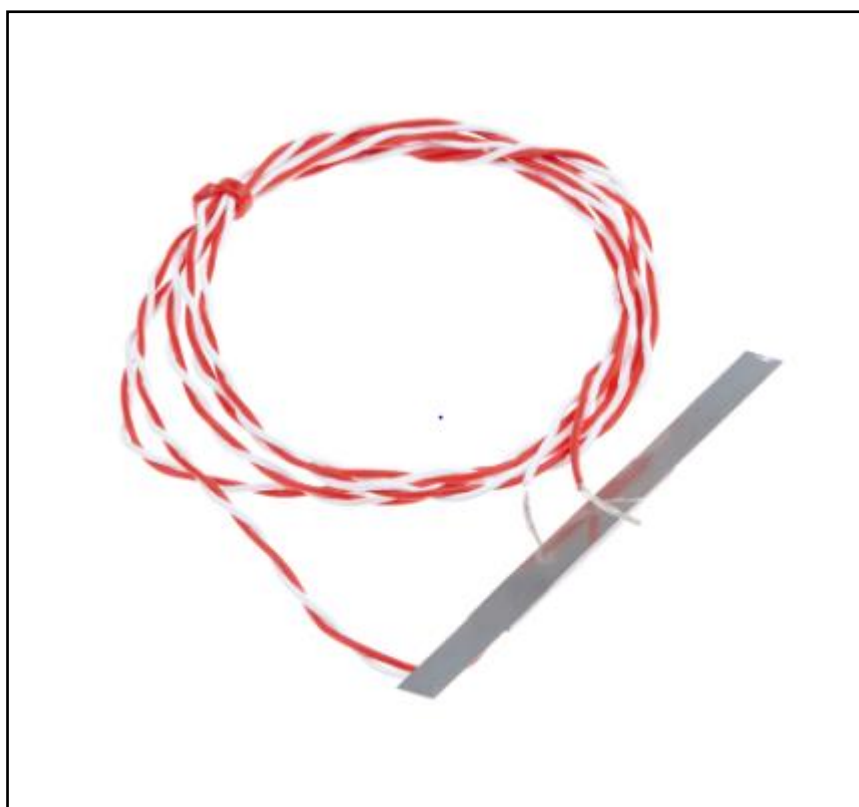
RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

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 a flat stainless steel sheath so it can be used to measure the temperatures on surfaces. The twin twisted leads are insulated with durable and flexible Teflon. This platinum resistance thermometer provides accurate and reliable temperature measurement for a wide range of applications.

General Specifications

Sensor Type	PT100
Probe Material	Stainless Steel
Number Of Wires	2
Accuracy	Class B
Response Time	0.1s
Construction	Element sealed in a thin stainless steel strip & body
Vibration Resistant	Yes
Tolerance	Class B
Applications	These stainless steel sheathed PRT surface sensors with their compact and versatile design are suitable for use in a wide range of applications including: Chemical industry, Plastics processing, Stoves and grills, Air, gas and liquid temperature measurement, Exhaust gas temperature measurement

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	6mm
Termination Type	Lead Wire
Cable Length	1m
Process Connection	Probe
Sheath	Stainless steel sheath

Operation Environment Specifications

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

Approvals

Compliance/Certifications	IEC751
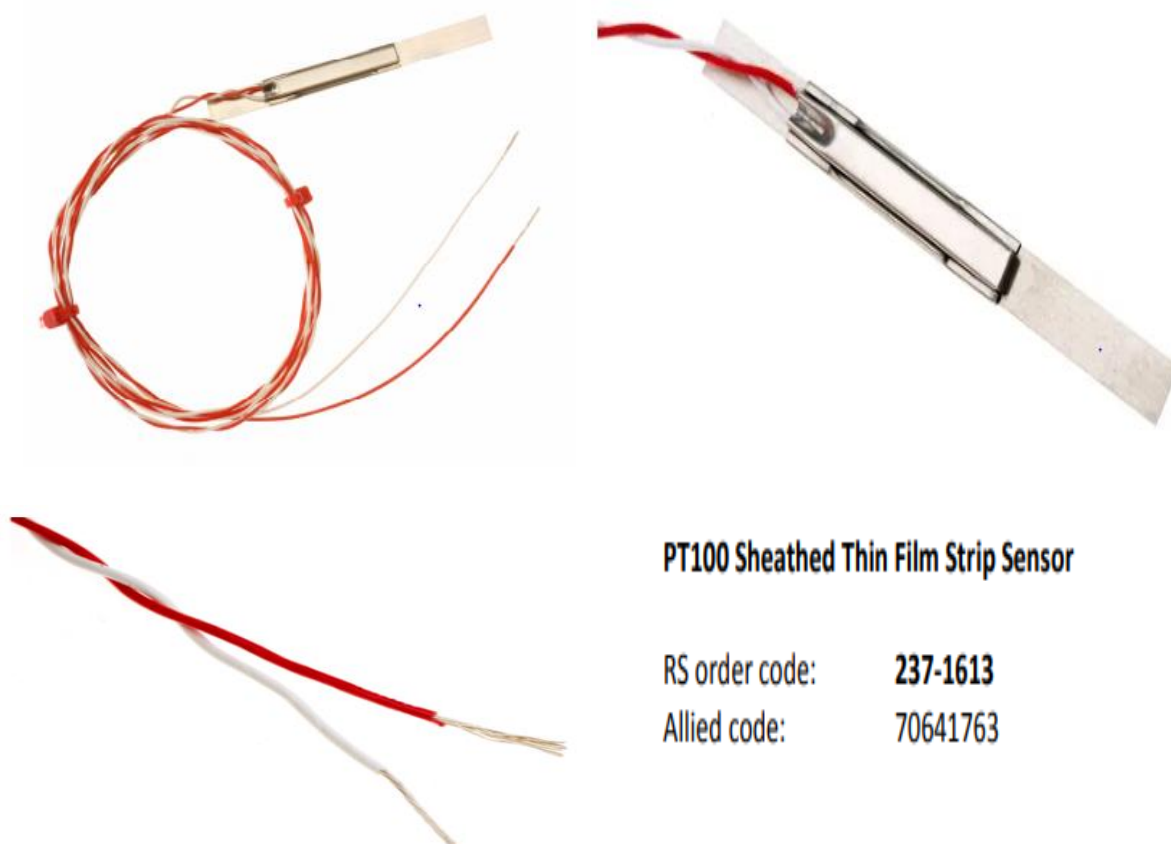
PT100 Sheathed Thin Film Strip Sensor

RS order code: **237-1613**

Allied code: 70641763