FEATURES

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

- **IEC 60751 Class B accuracy**

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

- **Rigid metal sheath for protection of sensing element**

- **IP54 rated aluminium terminal head**

- **3 wire connection ceramic terminal block**

- **Screw lid for easy access to connections**

RS PRO 3 wire PT100 Sensor, -50°C min +250°C max, 50mm Probe Length x 8mm Probe Diameter

RS Stock No.: 547-7663

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 heavy duty Pt100 PRT (Platinum Resistance Thermometer) or RTD (Resistance Temperature Detector) sensing probe with a terminal head. This RTD probe has a robust construction with the sensing element encased in a rigid metal sheath. The terminals of the sensor are enclosed in an aluminium terminal head which protects to them against harsh environments. This heavy duty 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	3
Accuracy	Class B
Response Time	Water (v=0.4m/s): T0.5=0.25s ; T0.9=0.70s, Air (v=1m/s): T0.5=5.5 ; T0.9=16s
Construction	B12 Aluminium IP 54 Head with ½ BSP welded fitting
Tolerance	±0.30 + 0.005.[t°c]
Head Type	Aluminium terminal head
Applications	These heavy duty PRT sensor probes with their robust design are ideal for use in many industrial applications including the following: Chemical industry, Stoves and grills, Air conditioning and refrigeration, Air, gas and liquid temperature measurement, Food processing, Laboratories

Electrical Specifications

Ice point resistance	100Ω

Mechanical Specifications

Probe Length	50mm
Probe Diameter	8mm
Termination Type	Connection Head
Process Connection	G1/2
Sheath	rigid metal sheath

Operation Environment Specifications

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

Protection Category

IP Rating	IP54

Approvals

Compliance/Certifications	IEC 60751
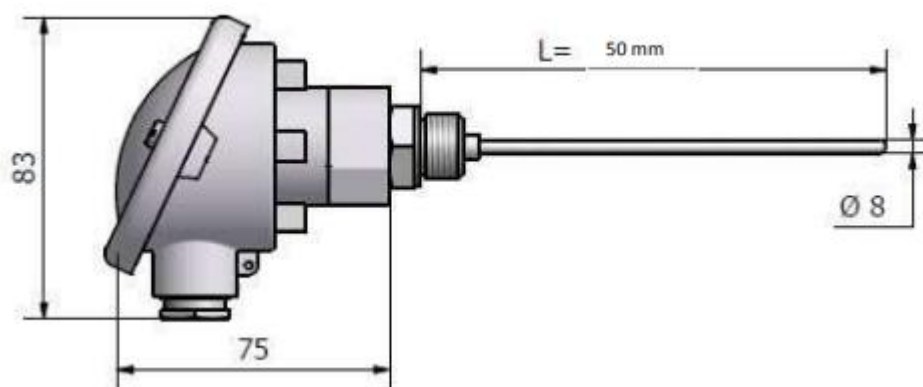
Other type:

Length Diameter	50	100	150	250	350	500
8mm	547-7663	547-7714	547-7708	547-7635	547-7590	547-7742