FEATURES

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

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

- **Temperature measurement range of -100 to +450°C**

- **Rigid corrosion resistant 316 stainless steel sheath for protection of sensing element**

- **IP67 rated aluminium alloy weatherproof terminal head**

- **in" BSPP process connection**

- **M20 x 1.5mm cable entry with gland for external connections**

- **4 wire connection terminal block**

RS PRO 4 wire PT100 Sensor, -100°C min +450°C max, 150mm Probe Length x 6mm Probe Diameter

RS Stock No.: 455-4040

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 6mm diameter 316 stainless steel sheath. The terminals of this Pt100 sensor are enclosed in an aluminium alloy terminal head which protects 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	4
Accuracy	Class B
Construction	6.0mm diameter stem in 316 stainless steel
Tolerance	Class B
Head Type	Aluminium alloy terminal head
Applications	These heavy-duty PRT sensor probes with their robust design are ideal for use in many industrial applications including the following: Plastics processing, Laboratories, Chemical industry, Plastics processing, Stoves and grills, Air, gas and liquid temperature measurement, Exhaust gas temperature measurement

Electrical Specifications

Ice point resistance	100Ω

Mechanical Specifications

Probe Length	150mm
Probe Diameter	6mm
Termination Type	IP67 aluminium alloy weatherproof connection head with 4 wire connection block, M20 x 1.5mm cable entry (gland included)
Process Connection	1/2"BSP parallel
Cable Entry Size	M20
Sheath	Stainless steel

Operation Environment Specifications

Minimum Temperature Sensed	-100°C
Maximum Temperature Sensed	450°C

Protection Category

IP Rating	IP67

Approvals

Compliance/Certifications	IEC751

With or without 1/2"BSPP process connection, aluminium alloy head termination

(without process connection)

(with process connection – 1/2"BSP parallel)

Probe Dia Ø	Probe length	1/2"BSPP process connection	Allied code	RS order code
6.0mm	150mm	No		178-0976
6.0mm	200mm	No	70637790	285-633
6.0mm	250mm	No		178-0977
6.0mm	300mm	No		178-0978
6.0mm	400mm	No	70637791	285-649
6.0mm	600mm	No	70637792	285-655
6.0mm	150mm	Yes	70644355	455-4040
6.0mm	250mm	Yes	70644356	455-4056
6.0mm	500mm	Yes	70644357	455-4062