

FEATURES

- A wide operating temperature range: -100°C to 450°C
- 6mm probe diameter
- IP67 rating which provides protection from total dust ingress and immersion between 15cm and 1 meter in depth
- 4 wire connection
- Meets IEC751 standards

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

RS Stock No.: 872-2717



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, comes a range of high-quality PRT (Platinum resistance thermometer) PT100 probes with compact KNS heads. Manufactured with an aluminium alloy weatherproof connection head and 316 stainless steel construction, these class B probes are an excellent solution for temperature measurement.

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 |
| Applications | This platinum resistance temperature probes have a variety of application use such as; Heating, Air conditioning, Stoves and grills, Food processing and energy |

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 | 100mm |
| Probe Diameter | 6mm |
| Termination Type | Connection Head |
| Cable Length | 1.5mm |
| Process Connection | Probe |
| Cable Entry Size | M16 x 1.5mm |
| Reel Length | Supplied in 10 or 25 metre reel lengths |

Operation Environment Specifications

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

Approvals

| | |
|-------------------------------------|-------------------------------|
| Compliance/Certifications | IEC751 standards |
| Hazardous Area Certification | IEC751 standards, IP67 rating |



Platinum Resistance Temperature Sensors



| Probe DiaØ | Probe length | RS order code |
|-------------------|---------------------|----------------------|
| 6.0mm | 100mm | 872-2717 |
| 6.0mm | 150mm | 872-2711 |
| 6.0mm | 200mm | 872-2720 |
| 6.0mm | 250mm | 872-2723 |
| 6.0mm | 300mm | 872-2727 |