

# DATA SHEET

## RS 348-2427 PT100 DOMED GENERAL PURPOSE PROBE

### GENERAL PURPOSE PROBE - 4.0 mm PT100

#### Description

This probe uses the straight handle for fine control. The probe is truly general purpose and may be used for gas, liquid or applications with difficult access.

#### Construction

Stainless Steel Probe 4.0 mm Diameter by 100mm Long : Stainless Steel 316 (Food Grade)  
2M curly polyurethane cable to tails. Complete waterproof assembly.

#### Sensor Features

➤ **TOTAL ENCAPSULATION TECHNIQUE FOR MAXIMUM STRENGTH AND DURABILITY.**

This results in a solid handle as opposed to a hollow handle. This is particularly important as there is often damage to the handles caused by excess heat. With a hollow handle it is possible to puncture the outer plastic and damage the sensor irreparably.

➤ **WATERPROOF HANDLE**

Due to the total encapsulation method used, all TME probe handles are completely waterproof.

➤ **TOUGH POLYURETHANE CABLE**

- Polyurethane cables are used in place of the standard polyurethane for the following reasons :-
- Greater retractability
- Enhanced memory of it's curl
- Non-Toxic
- Greater mechanical strength for durability
- 12 X 0.2mm wires used internally for greater strength.
- PTFE inner insulation for strength and retractability.

➤ **HIGH ACCURACY FLAT FILM PT100 SENSOR**

PT100 Sensor : Class A ( $\pm 0.15^{\circ}\text{C} \pm 0.2\%$ ) (BS1904 Class A)

➤ **POLYPROPYLENE HANDLES**

Polypropylene is an extremely tough and durable material, commonly used for milk crates, it has good low temperature performance and a relatively high melt temperature. It performs exceptionally well under chemical attack.

- **WIDE AMBIENT TEMPERATURE SPECIFICATION** : -30 TO 50 °C  
➤ **TIME RESPONSE** (*96% of value in water*) : 10 Secs  
➤ **MEASUREMENT RANGE** : -200 TO 250 °C

#### Cross-reference for compatible instruments

Suitable instruments for use with this probe

RS PART No	DESCRIPTION	APPLICATION
RS375-2827	MAX / MIN HOLD INSTRUMENT	HIGH ACCURACY INSTRUMENT WITH MAX, MIN AND HOLD FEATURES