

# DATA SHEET

## RS 342-8883 LIGHT DUTY TYPE 'K' GENERAL PURPOSE PROBE

### GENERAL PURPOSE PROBE - 1.5 mm Type 'K'

#### 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

Minerally Insulated Probe 1.5mm Diameter by 100mm Long : Stainless Steel 316 (Food Grade) 2M curly polyurethane cable with moulded connector. 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 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 THERMOCOUPLE MATERIAL THROUGHOUT**

Type 'K' Thermocouple : Class I ( $\pm 0.5^\circ\text{C} \pm 0.25\%$ )

➤ **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.

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| ➤ <b>WIDE AMBIENT TEMPERATURE SPECIFICATION</b> | <b>: -30 TO 50 °C</b>    |
| ➤ <b>TIME RESPONSE (96% of value in water)</b>  | <b>: 1.0 Secs</b>        |
| ➤ <b>MEASUREMENT RANGE</b>                      | <b>: -200 TO 1100 °C</b> |