

Datasheet

RS KM05 Temperature Probe, T, -200 → +1100 °C With SYS Calibration

RS Stock 283-684



Specifications

Description

This probe has been designed for long penetration into semi-solid materials. It is ideal for applications such as measurement within a **grain store** or **construction** materials such as **Tarmac** also used in the **paper industry**. The probe uses the bulbous handle to enable the sensor tip to be pushed into a semi-solid product with maximum ease of use.

Construction

Needle Probe 6.0mm Diameter by 300mm 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 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 THERMOCOUPLE MATERIAL THROUGHOUT

Type 'T' Thermocouple : ½ Class I (±0.25°C ±0.25%)
Type 'K' Thermocouple : Class I (±1.5°C ±0.5%)

> 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) : 3 Secs
- > MEASUREMENT RANGE : -100 TO 250 °C