ENGLISH

Datasheet

RS KP08 Temperature Probe, K, -100 → +250 °C

RS Stock 255-516

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