T.M.Electronics (UK) Ltd Technical Data

DATA SHEET

KS02 SURFACE (BAND) PROBE TYPE 'K' 45˚ BEND

RIBBON SURFACE PROBE - Type 'K'

Description

This probe uses the straight handle for fine control. The probe is designed for the measurement of surface temperatures giving a fast response time.

NOTE: This probe only requires light pressure to give a true reading and is suitable for smooth, clean surfaces. If used on an uneven surface, there is a risk that the band will be weakened and deformed.

Construction

Ribbon band sensor with thermocouple sensor attached and draught shield : Stainless Steel 316 (Food Grade)
2M curly polyurethane cable with moulded connector.

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 PVC 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 (±1.5˚C ±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.

- **WIDE AMBIENT TEMPERATURE SPECIFICATION : -30 TO 50 ˚C**
- **TIME RESPONSE *(96% of value on clean metal)* : 0.1 Secs**
- **MEASUREMENT RANGE : -200 TO 300 ˚C (higher for non-continuous measurement)**

➢ Cross-reference for compatible instruments

➢ Suitable instruments for use with this probe

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TME PART No	DESCRIPTION	APPLICATION
MM2000	SINGLE INPUT INSTRUMENT	HIGH ACCURACY TEMPERATURE MEASUREMENT
MM2008	LEGIONELLA THERMOMETER W/ TIMER	LEGIONELLA TEMPERATURE MEASUREMENT
MM2010	MAX / MIN HOLD INSTRUMENT	HIGH ACCURACY INSTRUMENT WITH MAX, MIN AND HOLD FEATURES
MM2020	DIFFERENTIAL INSTRUMENT	DUAL INPUT INSTRUMENT FOR DIFFERENTIAL MEASUREMENTS
MM2030	THERMOCOUPLE SIMULATOR	HIGH ACCURACY SIMULATOR WITH MEASUREMENT FACILITY
MM7000-2D	BARCODE SCANNING THERMOMETER	HANDHELD INSTRUMENT W/ BARCODE SCANNING FACILITY
MM7005-2D	BARCODE SCANNING THERMOMETER W/ USB	HANDHELD INSTRUMENT W/ BARCODE SCANNING FACILITY & USB
MM7100-2D	NEW GEN BARCODE SCANNING THERMOMETER	HANDHELD INSTRUMENT W/ BARCODE SCANNING FACILITY
MM7105-2D	NEW GEN BARCODE SCANNING THERMOMETER W/ USB	HANDHELD INSTRUMENT W/ BARCODE SCANNING FACILITY & USB