

DATA SHEET

KS01 SURFACE (BAND) PROBE TYPE 'K'

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.

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 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.

- **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

TME PART No	DESCRIPTION	APPLICATION
MM2000	SINGLE INPUT INSTRUMENT	HIGH ACCURACY 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

