

DATA SHEET

KS21-S SURFACE/IMMERSION PROBE TYPE 'K'

Description

This probe is designed for monitoring both immersion and surface temperatures. It features a 'crossed' ribbon sensing tip for superior strength and speed when compared to a single band version.

Construction

'Crossed' ribbon band sensor with thermocouple attached and draught shield: Stainless Steel 316 (Food Grade). Sealed with Silicon Rubber compound to ensure the probe is fully waterproof.
1M straight polyurethane cable with moulded connector.

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.

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:
- Non-Toxic
- Greater mechanical strength for durability
- 12 X 0.2mm wires used internally for greater strength.
- PTFE inner insulation for strength

➤ HIGH ACCURACY THERMOCOUPLE MATERIAL THROUGHOUT

Type 'K' Thermocouple : Class I ($\pm 1.5^{\circ}\text{C} \pm 0.25\%$)

➤ 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) : 3 Secs
- **MEASUREMENT RANGE** : -50 TO 250 °C

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
MM2008	LEGIONELLA THERMOMETER	HIGH ACCURACY THERMOMETER w/ INTEGRAL WATER TEMP TIMER
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 INSTRUMENT	HIGH ACCURACY INSTRUMENT WITH BARCODE SCANNING FACILITY