DATA SHEET

KS17 CURVED SURFACE PROBE TYPE 'K'

CURVED SURFACE PROBE - Type 'K'

Description

This probe uses the straight handle for fine control. The probe is designed for the measurement of curved surface temperatures utilising a fabric measurement band which will adopt the form of the target surface.

Construction

The sensor features a fabric measurement band which is tensioned. A thermocouple sensor is attached to the rear of the band. The probe is supplied with 2M curly polyurethane cable with moulded connector.

Sensor Features

> HANDLE 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 (±01.5°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

≻	TIME RESPONSE	(96% of value on clean metal)
\triangleright	MEASUREMENT RANGE	

: -30 TO 50 °C : 10 Secs : -50 TO 180 °C (higher for non-continuous

 MEASUREMENT RANGE measurement)

Cross-reference f	or compatible	instruments
		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