DATA SHEET

KS11 HIGH TEMPERATURE FAST RESPONSE SURFACE PROBE <u>TYPE 'K'</u>

HIGH TEMPERATURE SURFACE PROBE - Type 'K'

Description

This probe uses the straight handle for fine control. The probe is designed for the measurement of surface temperatures with a very high temperature range.

Construction

Two thermocouple wires are used to construct two springs they are then joined across the top of the wires to construct a thermocouple junction. These are then housed in a ceramic sheath. 2M curly polyurethane cable with moulded connector.

Sensor Features

TOTAL ENCAPSULATION TECHNIQUE FOR MAXIMUM STRENGTH AND DURABILITY. \triangleright

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.

\triangleright 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.

(96% of value on clean metal)

PTFE inner insulation for strength and retractability.

\triangleright 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 TIME RESPONSE
- : -30 TO 50 °C : 3.0 Secs : -50 TO 1100 °C

MEASUREMENT RANGE 0

Cross-reference for compatible instruments

Suitable instruments for use with this probe

DESCRIPTION	APPLICATION
SINGLE INPUT INSTRUMENT	HIGH ACCURACY TEMPERATURE MEASUREMENT
MAX / MIN HOLD INSTRUMENT	HIGH ACCURACY INSTRUMENT WITH MAX, MIN AND HOLD FEATURES
DIFFERENTIAL INSTRUMENT	DUAL INPUT INSTRUMENT FOR DIFFERENTIAL MEASUREMENTS
THERMOCOUPLE SIMULATOR	HIGH ACCURACY SIMULATOR WITH MEASUREMENT FACILITY
	SINGLE INPUT INSTRUMENT MAX / MIN HOLD INSTRUMENT DIFFERENTIAL INSTRUMENT

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