T.M.Electronics (UK) Ltd Technical Data

DATA SHEET

KS17 BOW SURFACE PROBE TYPE 'K'

BOW SURFACE PROBE - Type 'K'

Description

This probe uses the straight handle for fine control. The probe is designed for measurement of rotating surfaces or uneven surfaces

Construction

A sprung loaded sensing tip is mounted behind a Teflon coated strip allowing the tip to conform to uneven or moving surfaces. 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 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 : -50 TO 50 ˚C**
- **TIME RESPONSE *(96% of value on clean metal)* : 10 Secs**
- **MEASUREMENT RANGE : -50 TO 200 ˚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
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