

## DATA SHEET

### KP02 HEAVY DUTY PROBE TYPE 'K'

#### HEAVY DUTY PROBE - Type 'K'

##### Description

This probe uses a strong handle at right angles to the sensor stem to allow the user ease of penetration of the sensor into the product.

##### Construction

Robust Delryn Handle with integral thermocouple socket. Stainless Steel sensor stem, with sensor welded into the tip. Supplied complete with detachable 2M curly Polyurethane cable.

##### Sensor Features

➤ **STAINLESS STEEL CONSTRUCTION**

The needle is constructed from solid stainless steel rod which gives a very strong construction.

➤ **STRONG DELRYN HANDLE**

The handle for this probe is constructed from solid delryn rod giving a very robust assembly.

➤ **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%)

➤ **WIDE AMBIENT TEMPERATURE SPECIFICATION** : -30 TO 50 °C

➤ **TIME RESPONSE (96% of value in water)** : 7.0 Secs

➤ **MEASUREMENT RANGE** : -100 TO 280 °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        |