

## DATA SHEET

### TP10 TYPE 'T' NEEDLE PROBE

#### Needle Probes - 1.5 mm Type 'T'

##### Description

This probe uses a small handle for ease of use in confined spaces. It is suitable for semi-solid product.

##### Construction

Needle Probe 1.5mm Diameter by 70mm Long : Stainless Steel 316 (Food Grade)  
1M straight PTFE cable with moulded connector. Complete waterproof assembly.

#### 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 PTFE CABLE**

- PTFE cable ensures operation to 185°C.
- PTFE insulation for greater strength.

➤ **HIGH ACCURACY THERMOCOUPLE MATERIAL THROUGHOUT**

Type 'T' Thermocouple : ½ Class I (±0.25°C ±0.15%)

➤ **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 in water)** : 1.6 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
MM2005	INSTRUMENT WITH HOLD	HIGH ACCURACY INSTRUMENT WITH HOLD FUNCTION
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	BARCODE SCANNING INSTRUMENT	HIGH ACCURACY INSTRUMENT WITH BARCODE SCANNING FACILITY
MM7005	BARCODE INSTRUMENT USB	BARCODE SCANNING INSTRUMENT WITH USB INTERFACE
MM7010	LOGGING INSTRUMENT	DATA LOGGING INSTRUMENT WITH BLUETOOTH CONNECTION