

# DATA SHEET

## TP05 TYPE 'T' NEEDLE PROBE

### Needle Probes - 3.3 mm Type 'T'

#### Description

This probe uses the bulbous handle to enable the sensor tip to be pushed into a semi-solid product with maximum ease of use.

#### Construction

Needle Probe 3.3mm Diameter by 115mm Long : Stainless Steel 316 (Food Grade)  
2M curly polyurethane 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 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 '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.

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|---|-------------------------|
| ➤ <b>WIDE AMBIENT TEMPERATURE SPECIFICATION</b> | <b>: -30 TO 50 °C</b>   |
| ➤ <b>TIME RESPONSE(96%of value in water)</b>    | <b>: 1.6 Secs</b>       |
| ➤ <b>MEASUREMENT RANGE</b>                      | <b>: -100 TO 280 °C</b> |