

DATA SHEET

PTCA04 THERMISTOR AIR PROBE

AIR TEMPERATURE PROBE

Description

This probe uses the straight handle for fine control. This probe is used for the measurement of the temperature of gases.

Construction

The probe features an exposed thermistor sensor protected by a stainless steel sheath : Stainless Steel 316 (Food Grade) Supplied with 2M curly polyurethane cable to tails

Please note that this probe is not supplied with a connection plug for ease of hardwiring. Our thermistor probes can be purchased with jack plug as standard, other connection plugs available if required.
Jack plug order code: PTCPLUG

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 THERMISTOR**

2k2 NTC Thermistor Sensor : (±0.2°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** : -50 TO 50 °C
- **TIME RESPONSE** (96% of value in moving gas) : 3.0 Secs
- **MEASUREMENT RANGE** : -50 TO 150 °C

Cross-reference for compatible instruments (when purchased with jack plug)

Suitable instruments for use with this probe

	DESCRIPTION	APPLICATION
MM2040	THERMISTOR INSTRUMENT	HIGH ACCURACY THERMISTOR THERMOMETER