DATA SHEET

PRTA04   AIR TEMPERATURE PROBE PT100

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 PT100 flat film sensor protected by a stainless steel sheath : Stainless Steel 316 (Food Grade)   2M curly polyurethane cable to tails

Please note that this probe is not supplied with a connection plug for ease of hardwiring. Our PT100 probes can be purchased with 4-way plug as standard, other connection plugs available if required.
4-way PRT plug order code: PRTPLUG

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 FLAT FILM PT100 SENSOR**

   PT100 Sensor   : Class A   (±0.15˚C ±0.2%) (BS1904 Class A)

➢ **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 moving gas)*   : 3.0 Secs
➢ **MEASUREMENT RANGE**   : -50 TO 500 ˚C

Cross-reference for compatible instruments

Suitable instruments for use with this probe

	DESCRIPTION	APPLICATION
MM2050	MAX / MIN HOLD INSTRUMENT	HIGH ACCURACY INSTRUMENT WITH MAX, MIN AND HOLD FEATURES