HAND HELD TEMPERATURE PROBES

The hand held sensors come in two types, a ball shape for ease of penetration and a straight handle for greater control. Both styles are made from polypropylene. They are totally encapsulated, increasing strength, durability and ensuring the sensor is entirely waterproof. Polyurethane cables are used as standard (as opposed to PVC), for their wider ambient temperature range (-25°C to +110°C), enhanced memory of their curl and greater retractability and strength.

- Precise – high accuracy thermocouple wire or PRT
- Rugged – “moulded-on” handles and mini plugs
- Versatile – specialist tip configurations including penetration, air & surface
- Use with any appropriate digital thermometer

Budget Range

This range of sensors uses a moulded handle and Stainless Steel metal parts to present a robust range of probes for use with a type K thermometer. The probes are connected via a 1m straight lead and are constructed using Class II material.

Needle Probe

Air Probe

Surface Probe

Premium Range

The Probes all have the following features:

- 2m curly lead and moulded thermocouple plug
- Solid polypropylene construction
- Waterproof due to the solid construction.
- Tough polyurethane / PTFE cable

Needle Probes

Air Probes

- Ball shape allows pressure to be applied to penetrate semi solid materials
- Two thicknesses available 3.3/6.0mm
- Stainless Steel 316 Needle
- Fully Waterproof Construction for ease of cleaning

Temp Range (-100 to 250°C)
Time Constant (96% of value) : 3.3 mm 1.6 Secs in water
: 6.0 mm 3.6 Secs in water

- Cable colours are in accordance with BS4937 part 30
- Class 1 thermocouple material used throughout to give accuracies of ±1.5°C ±0.4% of reading.
- High accuracy thermocouple material throughout
- Wide ambient temperature specification –30 to 50°C
Surface Probes

- Spring loaded Copper measurement tip
- Robust Design
Temp Range: -100 to 400°C
Time Constant (96% of value): 30 Secs

- Spring loaded stainless steel tip housed in ceramic outer draught shield
- Extended shaft length to protect user from high temperatures
Temp Range: -50 to 950°C
Time Constant (96% of value): 3 Secs

General Purpose MI Probes

- Flexible probe may be used for gas, liquids or semi-solids
- Sensor may be shaped for different applications

Three Types available: Light use 1.5mm Diam 100mm long
                      General 3.0mm Diam 100mm long
                      Extended 3.0mm Diam 300mm long
Temp Range: -200 to 1100°C
Time Constant (96% of value): 1.5 mm 1.0 Secs in water
                          : 3.0 mm 2.0 Secs in water

Pipe Clamp Probe

- Ideal for pipe temperatures, flow and return and radiator balancing
- Supplied with 2m of curly lead and moulded thermocouple connector
Temp Range: -50 to 150°C
Maximum Pipe Diameter: 25mm
Time Constant (96% of value): 3 Secs

Temperature Kits for General Industrial Applications

General Purpose Kit No 1

General Purpose Kit No 2

Pt100 probes also available – details on request. Refer to Data MM2000 for the Labfacility range of hand-held thermometers.

Specifications may be subject to change.