

# 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.

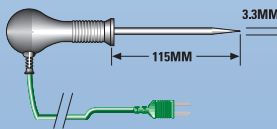
- Precise – high accuracy thermocouple wire or PRT
- Rugged – “moulded-on” handles and mini plugs
- Versatile – specialist tip configurations including penetration, air & surface
- Use with any appropriate digital thermometer



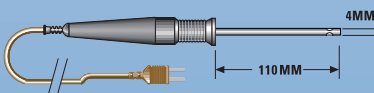
## Budget Range

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.

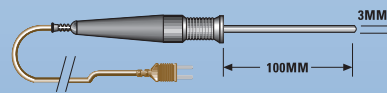
### Needle Probe



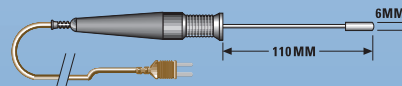
### Air Probe



### General Purpose MI Probe



### Surface Probe

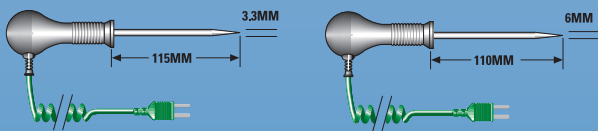


## Premium Range

The Probes all have the following features:

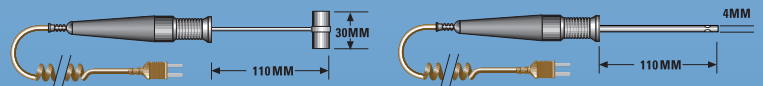
- 2m curly lead and moulded thermocouple plug
- Solid polypropylene construction
- Waterproof due to the solid construction.
- Tough polyurethane / PTFE cable
- Cable colours are in accordance with BS4937 part 30
- Class 1 thermocouple material used throughout to give accuracies of  $\pm 1.5^\circ\text{C}$   $\pm 0.4\%$  of reading.
- High accuracy thermocouple material throughout
- Wide ambient temperature specification -30 to 50°C

### Needle Probes



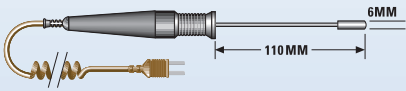
- Balled handle allows pressure to be applied to penetrate semi solid materials
  - Two thicknesses available 3.3/6.0mm
  - Stainless Steel 316 Needle
  - Fully Waterproof Construction for ease of cleaning
- Temp Range : -100 to 250°C  
 Time Constant (96% of value) : 3.3 mm 1.6 Secs in water  
 : 6.0 mm 3.6 Secs in water

### Air Probes



- This probe consist of a thermocouple junction housed in a Stainless Steel tube it is ideal for measurement of moving air.
- Temp Range : -100 to 750 °C  
 Time Constant (96% of value) : 1.0 Secs
- This probe consist of a thermocouple junction housed in a Stainless Steel tube with perforations around the top. This allows free passage of air across the sensor.
- Temp Range : -100 to 750 °C  
 Time Constant (96% of value) : 1.0 Secs

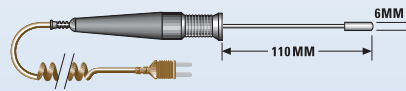
## Surface Probes



- Spring loaded Copper measurement tip
- Robust Design

Temp Range : -100 to 400 °C

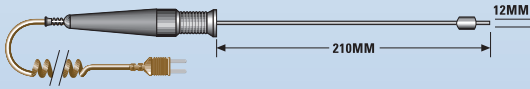
Time Constant (96% of value) : 30 Secs



- High quality fast response sensor, a thin stainless steel band ensures good thermal contact.
- Ideal for applications where fast accurate surface measurements are required
- Ideal for measurement of radiators/heatsinks.

Temp Range : -50 to 250 °C

Time Constant (96% of value) : 1 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

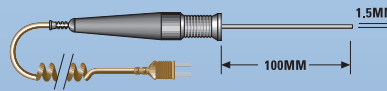
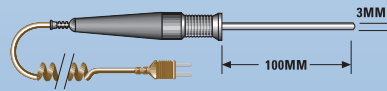
## General Purpose MI Probes

- 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



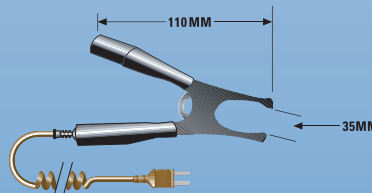
## Pipe Clamp Probe

- 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

**LABFACILITY**

TEMPERATURE & PROCESS TECHNOLOGY

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