

ITH manufacture from raw material a range of general purpose thermocouples in either standard or custom designed form. These extremely popular temperature sensors are provided with a choice of PVC, PTFE or Glass Fibre insulated stainless steel braid leads.

SELECTION AVAILABLE:

Bayonet Thermocouple

Ref: BTC

Suitable for plastics machinery and general purpose applications, these assemblies are supplied complete with a spring and adjustable bayonet cap fitting for easy site fitting. The sensing tip is incorporated within a stainless steel tube which the stainless steel braided leads are sealed into.

Product Range Characteristics:

- Thermocouple Types K or J available, grounded junction.
- Sheath and leads rated - 50°C to + 400°C
- Sheath 316 Stainless Steel.
- PVC, PTFE or Glass fibre stainless steel braid leads.
- Operating range from -30°C to + 400°C (dependant on leads)



Leaf Thermocouple

Ref: LTC

The sensor has a fast response thermocouple mounted on a stainless steel shim which allows it to be soldered, welded or placed under banding on a variety of applications including nozzle or band heaters. The thermocouple can be supplied with either plain tails or miniature plug termination.

Product Range Characteristics:

- Thermocouple Types K, T, J or N available, grounded junction
- Stainless Steel Leaf Dimensions: 15 mm x 25 mm
- PVC, PTFE or Glass fibre stainless steel braid leads.
- Operating range from -30°C to + 400°C (dependant on leads)



Washer Thermocouple

Ref: WTC

This range of thermocouples are ideal for surface monitoring of many different applications including pipes, vessels and platens up to a maximum operating temperature of 400°C.

Product Range Characteristics:

- Thermocouple Types K, T, J or N available, grounded junction
- Washer Sizes M8, M6 (OBA) or M3.5 (4BA)
- PVC, PTFE or Glass fibre stainless steel braid leads.
- Operating range from -30°C to + 400°C (dependant on leads)



Adjustable Ring Thermocouple

Ref: RTC

The thermocouple is used for measuring pipe temperatures up to 400°C. The thermocouples are available in a number of sizes to suit the pipe diameter. This range of sensors make direct contact with the pipe for maximum performance.

Product Range Characteristics:

- Thermocouple Types K, T or J available, grounded junction
- Covers Pipe Sizes 32-50mm, 50-150mm or 15-300mm
- PVC, PTFE or Glass fibre stainless steel braid leads.
- Operating range from -30°C to + 400°C (dependant on leads)



Nozzle Thermocouple

Ref: NTC

Suitable for plastics machinery and general purpose applications and have been designed to screw directly into the application.

The nipple allows the nozzle to rotate, so the wires do not twist when threading in and tightening the nozzle. They are available in several bolt sizes and are made from stainless steel.

Product Range Characteristics:

- Thermocouple Types K, T or J available, grounded junction
- Bolt sizes M6 or M8
- PVC, PTFE or Glass fibre stainless steel braid leads.
- Sheath and leads rated - 50°C to + 400°C
- Operating range from -30°C to + 400°C (dependant on leads)



GUIDE TO THE SELECTION OF THERMOCOUPLE WIRE AND CABLE

Material	Useable temperature range	Application
PVC	-10 degrees C to 105 degrees C	Good general purpose insulation for light environments. Waterproof and flexible.
PTFE	-75 degrees C to 250 degrees C	Resistant to oils, acids and other adverse agents and fluids. Good mechanical strength and flexibility.
GLASS FIBRE	-60 degrees C to 350/400 degrees C	Good temperature range but will not prevent the ingress of fluids. Fairly flexible but does not provide good mechanical protection.



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Reference: GPTC – GENERAL PURPOSE THERMOCOUPLES