

TEMPERATURE SENSORS

Mineral Insulated Sensors

Features

- Wide temperature range capability
- Can be formed and shaped to fit the process
- Insulated, grounded and exposed tips available
- Plain pot seal and 1 metre lead
- Wide range of lengths and diameters

Mineral insulated sensors with plain pot seal in 1, 1.5, 3, 4.5 or 6mm (t/c) and 3 or 6mm (Pt100) diameter. They have a broad temperature range from -200 to above 1200°C (t/c) or -50 to 600°C (Pt100) and are very robust, making them ideal for demanding applications.



High Temperature Ceramic Sensors

Features

- Type R or S thermocouple
- Interchangeable insert
- High temperature range: 0 to 1600°C
- Class 1 accuracy
- Duplex options

This range of platinum sensors feature a non-porous recrystallised alumina protection sheath. This has a higher operating temperature than an aluminous sheath and greater resistance to thermal, chemical and physical shock.



Industrial Assemblies

Features

- Spring loaded removable insert
- Class 1 t/c or Class A Pt100 accuracy
- IP68 weatherproof head
- 316 Stainless Steel wetted parts

This range of high quality fabricated thermocouple and RTD sensors are ideal for temperature measurement in gases or liquids in industrial applications, where a heavy duty assembly is required. The standard process connection is 1/2" BSPP with an 11mm diameter stem.

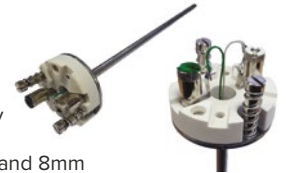


Spring Loaded Inserts

Features

- Simple to replace for plant efficiency
- Bespoke manufactured options
- Common diameters are 3mm, 6mm and 8mm
- Optional transmitter that replaces the ceramic terminal block
- Spring loaded for good thermal contact and fast reliable response

This easily interchangeable thermocouple or RTD sensor is used in thermowells with terminal heads and can be replaced with minimal time and effort. It has a ceramic terminal block and spring loaded screws for good thermal contact and fast, reliable response.



Hygienic Assemblies

Features

- Class A accuracy and IP68 rating
- 3 wire RTD configuration
- FDA approved terminal head

This range of high quality RTD sensors is ideal for hygienic applications, such as temperature measurement in dairy, food or pharmaceutical manufacturing or processing. The RTD sensor features a 6mm diameter 316 stainless steel stem with Pt100 Class A sensor below as standard.



Wall Mount Sensors

Features

- Pt100 Class B RTD 3 wire
- Fast response
- Ingress protection IP68
- Available with ceramic block or transmitter

Rugged wall mounted resistance thermometer for air temperature measurement with IP68 protection. A robust construction resistance thermometer designed for ambient temperature measurement applications with a range of -50 to 80°C. The exposed Pt100 element is ideal for accuracy and fast response.



Temperature Transmitters

Features

- LED over-range indication
- Push button sensor matching
- Isolated input to output
- Programmable burnout
- In head or DIN rail designs

A family of manual or PC configurable transmitters. Choose from low cost in head designs to high performance HART with high accuracies and universal inputs. All ranges incorporate the latest digital technology to ensure accurate drift free linearisation.



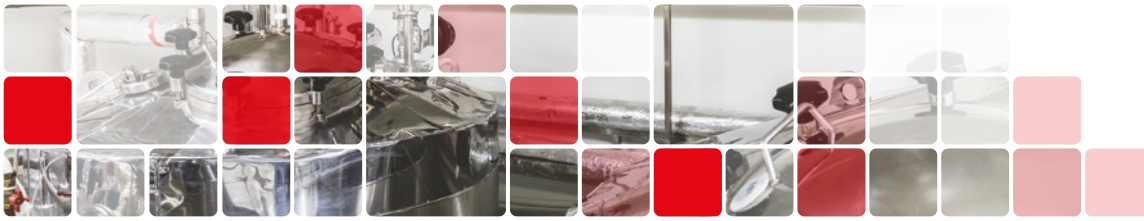
Sensor Cable & Accessories

We offer a full portfolio of sensor accessories available on short lead times to suit all environmental conditions.

Product range includes:

- Thermocouple and screened resistance cable in PVC, FEP, PFA, fibre glass, or with stainless steel overbraid
- Thermocouple and RTD plugs and sockets either in standard and mini format. High temperature range available.
- Compression fittings in a variety of process connections in brass or stainless steel





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Wire Sensors

Features

- 0.3mm Ø conductor with low thermal mass
- IP68 rated for submersion
- Exposed junction
- Flexible
- Made from Class 1 t/c material or Class A Pt100



Low cost custom designs available from fine wire twisted pair, hermetically sealed IP68, or high temperature fibreglass rated to 400°C. Available as either Type K, T, J or N or as Pt100 and all designs offer fast response.

Magnetic Sensors

Features

- Magnet will hold 90% of its pull at 400°C
- Thermocouple types K, T, J, N or Pt100
- Spring loaded sensor for fast response

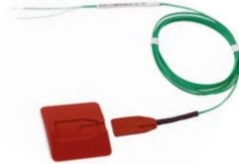


Magnetic thermocouple or Pt100 sensor with spring loaded tips, ideal for surface measurement applications. This sensor is fitted with an integral magnet and is designed to measure the temperature on the surface of ferrous metals. It can be applied as a permanent sensor but it's benefit comes in the convenience of being able to reposition the sensor along an application.

Self Adhesive Patch Sensors

Features

- Easy to install
- Fast response
- Available in types K, J, T, N or Pt100



Self-adhesive patch sensors suitable for surface mounting or encasing within an application. The self-adhesive patch has dimensions of 15mm x 24mm (t/c) or 15mm x 30mm (Pt100) and is suitable for use between -50°C and +250°C (t/c) or -50°C and +150°C (Pt100). They are supplied complete with a 2 or 5 metre PFA 1/0.2mm twisted pair lead wire as standard with 50mm stripped tails.

Pipe Clip Sensors

Features

- Easy to install
- Type K, J, T or Pt100
- -100 to +400°C range (-50 to +250°C Pt100)
- To suit pipe diameters 13-20mm, 20-30mm, 30-50mm, 50-100mm or 150-300mm



Jubilee style adjustable pipe clamp sensors are used for surface temperature measurement. This range of sensors are designed for maximum contact of pipes. They can be easily installed and replaced and are available in various sizes to suit a range of pipe diameters.

Leaf Probes

Features

- Type K or J thermocouples
- Fast response
- For use up to 350°C
- Lengths available to suit your application



Leaf thermocouple sensors are commonly used in surface temperature measurement. They are supplied welded to a standard sized stainless steel shim 20mm x 15mm. They are ideal for welding or bonding to surfaces for permanent temperature measurement of a variety of applications such as vessels, metalwork or heaters.

Washer Sensors

Features

- Easy to install
- Type K, J or T thermocouples
- M3.5, M6, M8 or M10 bolt sizes
- Rugged stainless over braid
- Lengths available to suit your application



This rugged brass washer thermocouple is ideal for permanent fixed surface measurement of a variety of materials, such as pipes, castings or metal work where a bolt, rivet or screw can be applied and is easy to install. Suitable for use up to 400°C.

Bolt Sensors

Features

- Type K, J, T or Pt100
- Standard or swivel styles
- -100 to +350°C range (-50 to +250°C Pt100)



This bolt sensor is designed to screw directly into the application to get a faster response and more accurate reading than surface measurement sensors. Available in bolt sizes M6, M8, M10 or M12 with a thread length of 10mm below the hexagon in either a standard fixed thread or a swivel style thread, the latter prevents wires from twisting when screwing the bolt into the application.

Fabricated Sensors

Features

- 316 Stainless Steel
- PFA lead wire can be supplied to any length
- Thermocouple types K, T, J, N or Pt100
- For use with compression fittings



Low cost fabricated thermocouples or Pt100 sensors with 316 SS sheath; crimp sealed and supplied with 1m PFA flexible lead wire. Fabricated sensor with 3.0mm, 5.0mm or 6.0mm diameter probe as standard. This rigid probe is ideal for general purpose temperature measurement giving the element protection in air or liquids.