



Mineral Insulated Thermocouple Sensor Fitted With Miniature Head Produc

Product Code TMIMH

Mineral Insulated Thermocouple

Mineral Insulated Thermocouple Sensors Fitted With Miniature Head Available in Types K, J, T, N and E.

These semi rigid thermocouples are available with various sheath materials and are fitted with a miniature IP67 rated die cast alloy terminal head for excellent environmental protection. The screw lid has a robust chain so to ensure it stays connected to the head. A ceramic terminal block inside the head ensures any connections to extension cable is simple via a M16 X 1.5mm cable entry thread and is supplied with a cable gland. The probe is attached to the head with a compression gland. As standard they

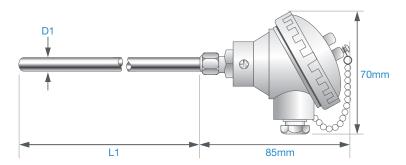


have insulated junctions to prevent earth loops. The metal sheaths are impervious to liquids and gases and can withstand high pressures. The diameters range between 3.0mm up to 8.0mm and the sensors can be formed to shape particular applications without impairing performance. The typical bending radius is 10 x probe diameter but can be reduced to 4 x if required.

A wide range of instrumentation or accessories including extension cables, connectors, pockets, thermowells and adjustable compression fittings are available for this product.

- Accuracy to IEC 60584.1 2013 Class 2 (Class 1 also available) IEC 60584.3 2008 colour coded extension cables and connectors
- In House Calibration Service is also available Bespoke designs available upon request Stocked versions available to order

Sensor Specifications



Sheath Materials Versus Application Type

316 Stainless Steel Excellent corrosion resistance often specified for food and medical applications

321 Stainless Steel Good corrosion resistance and high ductility and widely used in industry

310 Stainless Steel Good corrosion resistance at high temperatures and recommended for use in sulphurous atmospheres

600 Inconel Alloy Good resistance to oxidation and extremely corrosive atmospheres at high temperatures.

Not recommended for use in sulphurous atmospheres

Nicrobell® Alloy Recommended for use with type K & N conductors, Nicrobell is a Ni/Ch/Si alloy that is suitable for use

in reducing, oxidising and vacuum atmospheres

Specification page 1 of 2



Mineral Insulated Thermocouple Sensor With Fitted Miniature Head
Type K, Nickel – Chromium (+ Conductor) & Nickel – Aluminium (- Conductor)
Type J, Iron (+ Conductor) & Constantan (- Conductor)
Type T, Copper (+ Conductor) & Constantan (- Conductor)
Type N, Nicrosil (+ Conductor) & Nisil (- Conductor)
Type E, Nickel Chromium (+ Conductor) & Constantan (- Conductor)
Type K (1100°C), Type J (800°C), Type T (350°C), Type N (1250°C), Type E (800°C)
Type K, (310 Stainless Steel, 1100°C)
Type K, T, J & E (321 Stainless Steel, 800°C)
Type K & T (316 Stainless Steel, 800°C)
Type K & N (Inc 600, 1100°C)
Type K & N (Nicrobell®, (1250°C)
3.0mm, 4.5mm, 6.0mm & 8.0mm Ø
Insulated (isolated) or Grounded (non-insulated)
Simplex or Duplex
As required in millimetres
Miniature die cast alloy terminal head (IP67) with ceramic terminal block,
M16 X 1.5mm cable entry gland
Options Other terminal heads are available upon request
Brass or Stainless Steel In Tapered and Parallel
• 1⁄8" BSPT, 1⁄8" BSP • 1⁄4" BSPT, 1⁄4" BSP • 1⁄2" BSPT, 1⁄2" BSP

Specification page 2 of 2