

Temperature Probes

The terms 'RTD' and 'Thermocouple' are thrown about these days & like all relatively simple devices there is often more than meets the eye.

Hidden beneath the simplicity, somebody with a few clues made significant decisions. Here at Intech, we like to think we have a few ideas about temperature probes.



Megadeth: Not the right metal for all applications

There's more to a thermocouple than most people think – particularly a unit within a metal sheath. Why are the particular metals used? Isolated or non-isolated? Which sheath material to select? What affects the price? What affects the accuracy?

One size unfortunately doesn't fit all. If you are going to use a *Type N thermocouple* for example, you'll need an exotic sheath. Stainless steel and Type N react badly. It's all down to metallurgy.

Metal Sheath Material	Temperature Range	Comments / applications
321 Stainless Steel	0-800 deg C	* Good corrosion resistance * High Ductility (flexibility)
310 Stainless Steel	0-1100 deg C	* High Temp Corrosion Resistant * Can be in sulphurous atmospheres
Inconel 600	0-1150 deg C	* High temp corrosion resistance * Good oxidation resistance * DO NOT use in sulphurous atmospheres
Nicrobel	0-1200 deg C	* Excellent high temp strength * Can be used in oxidising, carburising, reducing & vacuum applications * DO NOT use in sulphurous atmospheres

Find out more here: www.intech.co.nz/temperature

In this issue:

- Temperature Probes.
- Use Slip Rings or Rotating Connections? Mercotac Connectors.

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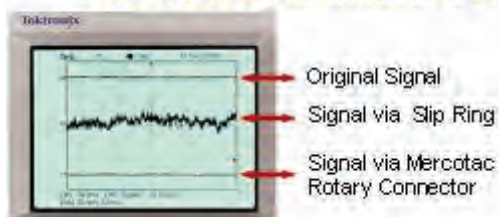
Use Slip Rings or Rotating Connections? Mercotac

Mercotac Rotating Electrical Connectors use a unique design principle; the connection is made through a pool of liquid metal molecularly bonded to the contact. This provides a low-resistance, stable connection.



During rotation the fluid maintains the electrical connection without any wear.

The Mercotac Difference:-



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