

### MI Cable Thermocouple Assemblies

#### Mineral Insulated Metal-Sheathed Cable

Thermocouple Assemblies are made from TEMPCO's high quality Tempco-Pak and will incorporate all the same outstanding features.

#### Important Features:

- \* *Accurate*
- \* *High Temperature Rating*
- \* *Fast Response*
- \* *Moisture Proof*
- \* *Thermal Shock Resistant*
- \* *Can Be Formed*
- \* *Weldable*
- \* *High Pressure Rated*
- \* *Compact*
- \* *Durable*

#### Typical Applications

- ↔ *Bearing Temperature*
- ↔ *Diesel Engines*
- ↔ *Food Processing*
- ↔ *Furnaces*
- ↔ *Glass Manufacturing*
- ↔ *Heat Treating*
- ↔ *Kilns*
- ↔ *Metal Processing*
- ↔ *Oil Processing*
- ↔ *Ovens*
- ↔ *Petrochemicals*
- ↔ *Power Stations*
- ↔ *Refineries*
- ↔ *Research Laboratories*
- ↔ *Steam Generators*
- ↔ *Turbines*

#### Hot Junctions

(Hot or Measuring Junctions available on single or dual element cable)

Choose the measuring junction that best suits your particular needs:



#### Exposed Junction (E)

Thermocouple wires are butt-welded. Insulation is sealed against liquid or gas penetration prior to use.

This junction style provides the fastest possible response time but leaves the thermocouple wires unprotected against corrosive or mechanical damage.



#### Grounded Junction (G)

The sheath and thermocouple wires are welded together, forming a completely sealed integral junction. Recommended in presence of liquids, moisture, gas or high pressure. The wire is protected from corrosive or erosive conditions. In the Grounded Junction, response time approaches that of the Exposed Junction.



#### Ungrounded Junction (U)

Thermocouple junction is fully insulated from welded sheath end. Excellent for applications where stray emf's would affect the reading and for frequent or rapid temperature cycling. With the Ungrounded Junction, response time is slightly longer than for the Grounded Junction.