

Common Thermocouple Sensors

| Type |  <br> Material | Wire ID <br> Properties | Wire <br> Color | Practical <br> Temp Range | Outer <br> Insulation | Limits of Error |
| :---: | :--- | :--- | :--- | :---: | :--- | :--- |

Extend thermocouples up to 2000 feet or 100 Ohms maximum resistance.
Extension wire must be the same type as the thermocouple.
Atmosphere for exposed junction
Type J Reducing
Type $\mathbf{K}$ or $\mathbf{N} \quad$ Clean oxidizing
Type $\mathbf{T} \quad$ Mildly oxidizing and reducing or with moisture
Type $\mathbf{E} \quad$ Vacuum, inert mildly oxidizing or reducing
Type $\mathbf{R}$ or $\mathbf{S} \quad$ Resists oxidation and corrosion, but contaminated by hydrogen, carbon, and metal vapors

## TEMPERATURE CONVERSION

${ }^{\circ} \mathrm{F}=\left({ }^{\circ} \mathrm{C} \times 9 / 5\right)+32$
${ }^{\circ} \mathrm{C}=\left({ }^{\circ} \mathrm{F}-32\right) \times 5 / 9$

## Did You Know...?

That the API 4000 G can accept either thermocouples or RTDs.

