



The following chart offers our customers a comprehensive comparison of the advantages and disadvantages of thermocouples, RTDs and thermistor temperature sensors.

| Attribute                    | Thermocouple      | RTD               | Thermistor       |
|------------------------------|-------------------|-------------------|------------------|
| <b>Temperature Range</b>     | -350 F<br>+3200 F | -400 F<br>+1200 F | -100 F<br>+500 F |
| <b>Interchangeability</b>    | Good              | Excellent         | Poor to fair     |
| <b>Long-term Stability</b>   | Poor to fair      | Good              | Poor             |
| <b>Accuracy</b>              | Medium            | High              | Medium           |
| <b>Repeatability</b>         | Poor to fair      | Excellent         | Fair to good     |
| <b>Sensitivity (output)</b>  | Low               | Medium            | Very high        |
| <b>Response</b>              | Medium to fast    | Medium            | Medium to fast   |
| <b>Linearity</b>             | Fair              | Good              | Poor             |
| <b>Self Heating</b>          | No                | Very low to low   | High             |
| <b>Point (end) Sensitive</b> | Excellent         | Fair              | Good             |
| <b>Lead Effect</b>           | High              | Medium            | Low              |
| <b>Size/Packaging</b>        | Small to large    | Small to Medium   | Small to Medium  |
| <b>Cost</b>                  | Low               | High              | Low              |

If you would like to obtain further information related to temperature sensor types, quotes, etc.; please contact Chris Myers at InTec Alliance or visit our website at [www.intecalliance.com](http://www.intecalliance.com)

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