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TEMPERATURE SENSOR COMPARISON GUIDE

Criteria	Thermocouple	RTD	Thermistor
Cost-OEM Quality	Low	High	Low
Temperature Range	Very wide -450°F +4200°F	Wide -400°F +1200°F	Shot to medium -100°F +500°F
Interchangeability	Good	Excellent	Poor to fair
Long-term stability	Poor to fair	Good	Poor
Accuracy	Medium	High	Medium
Repeatability	Poor to fair	Excellent	Fair to good
Sensitivity (output)	Low	Medium	Very High
Response	Medium to fast	Medium	Medium to Fast
Linearity	Fair	Good	Poor
Self heating	No	Very low to low	High
Point (end) sensitive	Excellent	Fair	Good
Lead effect	High	Medium	Low
Size/Packaging	Small to large	Medium to small	Small to medium