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- Low resistance: 100 Ω (most common) to 1000 Ω
- High sensitivity compared with thermocouples
- Very accurate (±0.0006°C to 0.1°C)
- Nearly linear over a wide temperature range (more so than thermocouples)
- Wide span of operating temperatures (-200°C to 850°C)
- Operates in high temperatures
- High repeatability and stability
 Low drift (industrial models drift < 0.1°C year⁻¹)
 - Precision RTDs may drift only 0.0025°C year-1

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RTD Disadvantages

- Fairly expensive (they're made of platinum!)
- Low static sensitivity
- Requires excitation and supporting circuitry
- Fragile wire (sensitive to shock and vibration)
- Low absolute resistance (i.e., resistance of long lead wires can affect sensor accuracy)
- Self-heating error
- Slow response time