RTD Simulators are used as calibration devices to ensure the accuracy of applications that use resistance temperature detectors (RTD)

Simulate virtually any reference temperatures to test and calibrate equipment — either in the lab or in the field

Certifications available — NIST, JIS C1604, IEC60751

Compliant to all international temperature scale standards (like IPTS-68, ITS-90)

Bulk Metal® Foil technology — Ideal for testing and calibrating

Extremely low temperature coefficient of resistance (TCR) to ±0.2 ppm/°C typical

Unparalleled inherent long-term stability to 50 ppm for 10,000 hours of load
RTD Simulator Solutions

RTD Simulator Resistors from Vishay Foil Resistors

- Simulate fixed reference temperatures
- Mobile, highly stable, rugged, cost effective

PERFORMANCE HIGHLIGHTS

- Any 6-digit value in the resistance range for virtually unlimited temperature simulation possibilities
- Load-life stability: to ±0.005% (50 ppm) at +70°C, 10,000 hours rated power
- NIST certification available
- Extremely low TCR: ±0.2 ppm/°C typical (~55°C to +125°C, +25°C ref.)

RTD Simulators can be supplied tailor-made to your needs.

ADR-3204GR Precision Programmable Resistance Box from Alpha Electronics

- Digitally controlled resistance simulator
- Simulates any resistance values from 5Ω to 199,999 kΩ to an accuracy of ±0.01% ±2 mΩ
- Front panel control or fully automated via PC connection to testing environment, e.g., during production in order to minimize inspection time while avoiding human error

PERFORMANCE HIGHLIGHTS

- Controllable by PC with GB-IB and RS232C interfaces
- Accuracy: ≤0.01% ±2 mΩ
- Quick switching times of 100 ms due to specially designed relays
- Stable resistance output—true resistance value by ultra precision Bulk Metal® Foil resistors instead of electrical output simulation
- JIS C1604/IEC60751 certified Pt thermometer table is stored in memory to facilitate entry of specific temperatures or specific resistance values in the Pt standard table (Pt100, Pt200, Pt300, Pt500, Pt1000)

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