

RTD Series

- 50 ppm absolute accuracy
- 1 mΩ resolution
- No "zero" resistance; direct setting
- Highest performance RTD simulator available
- Highest accuracy, highest stability, lowest TC
- wide range - 10 Ω to 1111.110 Ω
- Virtually independent of contact resistance variation
- Ideal for DIN PT-100, PT-100 ANSI, PT-50 and NI-120 systems



Model RTD-Z-6-.001 High Accuracy RTD Simulator

RTD-Z RTD-X Series

High performance, low temperature coefficient, high stability, RTD simulator.

The RTD Series is ideal where applications of Resistance Temperature Detector (RTD) simulation require exact low value resistance without "zero" and contact resistance effects. The RTD-Z-6-.001 exhibits a resistance range of 10 Ω to 1,111.110 Ω, 1 mΩ lowest decade resolution, 50 ppm absolute accuracy. The RTD-Z-6-.01 has a 10 mΩ resolution.

If this simulator is substituted for any RTD, the rest of the system may be calibrated or examined. Special designs virtually eliminate zero resistance and switch contact variations, providing the specified absolute accuracy over the entire range.

RTD-250 Series

Economical accurate compact RTD simulator. New high stability design

The RTD-250 is a more economical version for less exacting requirements. The RTD-250 exhibits a resistance range of 20 Ω to 1,121.110 Ω, 1 mΩ lowest decade resolution, 50 ppm absolute accuracy.

Model	Specs				
	RTD-Z-6-.001	RTD-X-6-.001	RTD-Z-6-.01	RTD-X-6-.01	RTD-250
Minimum resistance (Ω)	10.000	10.000	10.00	10.00	20.00
Maximum resistance (Ω)	1,111.110	1,111.110	11,111.10	11,111.10	1,121.10
Resolution (mΩ)	1	1	10	10	10
Number of decades	6	6	6	6	5
Absolute accuracy (ppm)	50	100	50	100	200
Tempco max. (ppm/°C)	5	5	5	5	5
Tempco typical (ppm/°C)	3	3	3	3	3
Stability (ppm/24hrs)	2	2	2	2	2
Stability (ppm/year)	10	10	10	10	10
Dimensions	W cm (in)	43.9(17.3)	43.9(17.3)	43.9(17.3)	30.9(12.2)
	H cm (in)	8.9(3.5)	8.9(3.5)	8.9(3.5)	8.9(3.5)
	D cm (in)	10.2(4)	10.2(4)	10.2(4)	10.2(4)

* Absolute accuracy is independent of "zero" and contact resistance

Maximum power for rated accuracy:

100 mW or 100 mA for 10.000 to 10.999 Ω;

100 mW per step for the highest decade in use for 11 Ω and over.

Maximum current: 200 mA.

Breakdown voltage: 1000 Vrms

Operating Temperature: -55 to +75 °C

Switch life, typical: >100,000 operations

New!

For programmable versions, see IET's PRTD Series, p. 23.



ORDERING INFORMATION

RTD-Z-6-.001	High Accuracy RTD Simulator, 1,111 Ω, 1 mΩ resolution, 50 ppm accuracy	RTD-X-6-.01	High Accuracy RTD Simulator, 11,111 Ω, 10 mΩ resolution, 100 ppm accuracy
RTD-X-6-.001	High Accuracy RTD Simulator, 1,111 Ω, 1mΩ resolution, 100 ppm accuracy	RTD-250	RTD Simulator, 1,121 Ω, 10 mΩ resolution, 0.02% accuracy
RTD-Z-6-.01	High Accuracy RTD Simulator, 11,111 Ω, 10 mΩ resolution, 50 ppm accuracy		



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