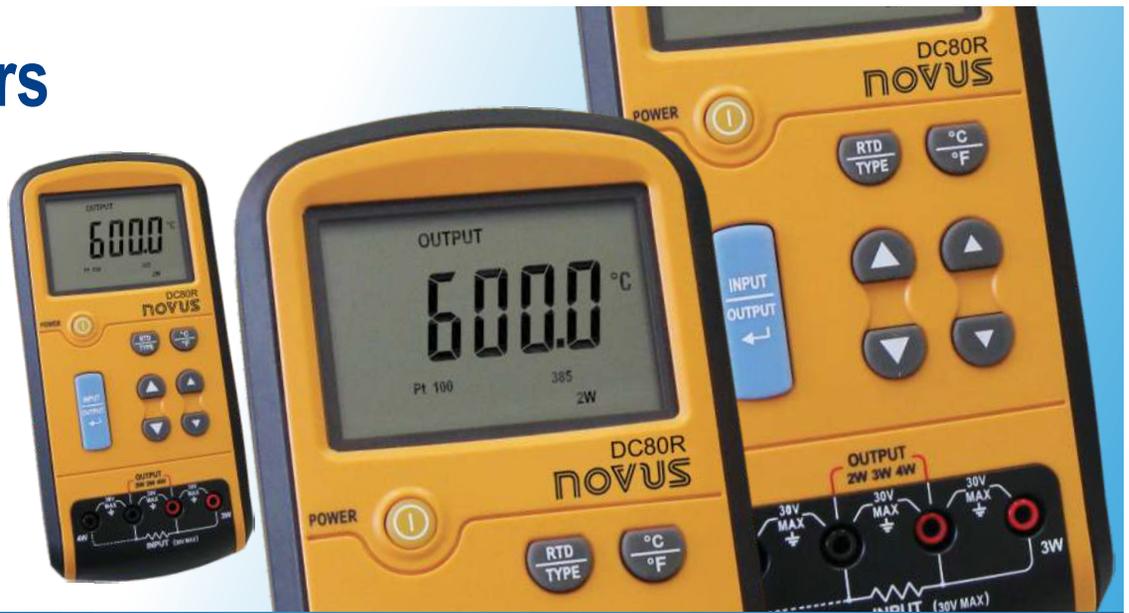


Calibrators



Model DC80T - Thermocouple Calibrator/ Simulator

Features:

- Measures and simulates eight different thermocouple types: J, K, T, E, R, S, B and N
- Generates and measures electrical voltage (mV) in the -10 mV to +75 mV range
- Accuracy of $\pm 0.3^\circ\text{C}$ for temperature
- Accuracy of 0.025 % for mV
- Temperature resolution: 0.1 $^\circ\text{C}$
- Voltage resolution: 0.01 mV
- Automatic cold junctions compensation (Cjc)
- Maximum error for cold junction compensation: $\pm 0.3^\circ\text{C}$
- Maximum voltage allowed between terminals or terminals and ground: 30 V
- Temperature unit selection from $^\circ\text{C}$ and $^\circ\text{F}$
- Low battery indication
- Operating temperature: $0^\circ\text{C} \sim 50^\circ\text{C}$
- Storage temperature: $-40^\circ\text{C} \sim 60^\circ\text{C}$
- Temperature effect on measurement/simulation: 0.02 % / $^\circ\text{C}$ from $0^\circ\text{C} \sim 18^\circ\text{C}$ and $28^\circ\text{C} \sim 50^\circ\text{C}$
- Operating relative humidity: 95 % up to 30°C , 75 % up to 40°C e 45% up to 50°C
- Operating altitude: 3000 meters
- Power: 6 type AAA batteries 1.5 V
- Dimensions: 205 x 98 x 46 mm
- Weight: 475 g with batteries included
- Accessories included: 6 size AAA batteries, two mini thermocouple connectors, one bead thermocouple sensor with mini connector, operation manual and carrying pouch

Measuring and Simulation Ranges

TYPE	RANGE	RESOLUTION	ACCURACY	MAX. CJC ERROR
J	-200 a 1200°C / -328 a 2192°F	0.1 $^\circ\text{C}/^\circ\text{F}$	$\pm 0.15\%$ F.S.	$\pm 0.5^\circ\text{C}$
K	-200 to 1370°C / -328 to 2498°F	0.1 $^\circ\text{C}/^\circ\text{F}$	$\pm 0.15\%$ F.S.	$\pm 0.5^\circ\text{C}$
T	-200 to 400°C / -328 to 752°F	0.1 $^\circ\text{C}/^\circ\text{F}$	$\pm 0.15\%$ F.S.	$\pm 0.5^\circ\text{C}$
E	-200 to 950°C / -328 to 1742°F	0.1 $^\circ\text{C}/^\circ\text{F}$	$\pm 0.15\%$ F.S.	$\pm 0.5^\circ\text{C}$
R	-20 to 1750°C / -4 to 3182°F	1 $^\circ\text{C}/^\circ\text{F}$	$\pm (1^\circ\text{C} + 10 \mu\text{V})$	$\pm 0.5^\circ\text{C}$
S	-20 to 1750°C / -4 to 3182°F	1 $^\circ\text{C}/^\circ\text{F}$	$\pm (1^\circ\text{C} + 10 \mu\text{V})$	$\pm 0.5^\circ\text{C}$
B	-600 to 1800°C / 1112 to 3272°F	1 $^\circ\text{C}/^\circ\text{F}$	$\pm (1^\circ\text{C} + 10 \mu\text{V})$	$\pm 0.5^\circ\text{C}$
N	-250 to 1300°C / -418 to 2372°F	0.1 $^\circ\text{C}/^\circ\text{F}$	$\pm (0.3^\circ\text{C} + 10 \mu\text{V})$	$\pm 0.5^\circ\text{C}$
mV	-10 to + 75 mV	0.01 mV	$\pm (0.025\% + 0.02 \text{ mV})$	

Model DC80R - RTD Calibrator / Indicator

Features:

- Measures and simulates SEVEN types of RTDs: Pt10, Pt50, Pt100 (385), Pt100 (392), Pt200, Pt500 and Pt1000
- Generates and measures resistance values from 0 Ω to 3200 Ω
- Accuracy of ± 0.2 $^{\circ}\text{C}$ for temperature
- Accuracy of 0.1 Ω for resistance
- Temperature resolution: 0.1 $^{\circ}\text{C}$
- Resistance resolution: 0.1 Ω
- Maximum allowed voltage between terminals or terminals and ground: 30 V
- Temperature unit selection from $^{\circ}\text{C}$ and $^{\circ}\text{F}$
- Low battery indication
- Operating temperature: 0 $^{\circ}\text{C}$ ~ 50 $^{\circ}\text{C}$
- Storage temperature: -40 $^{\circ}\text{C}$ ~ 60 $^{\circ}\text{C}$
- Temperature effect on measurement/simulation: 0.01 % / $^{\circ}\text{C}$ from 0 $^{\circ}\text{C}$ ~ 18 $^{\circ}\text{C}$ and 28 $^{\circ}\text{C}$ ~ 50 $^{\circ}\text{C}$
- Operating relative humidity: 95 % up to 30 $^{\circ}\text{C}$, 75 % up to 40 $^{\circ}\text{C}$ e 45% up to 50 $^{\circ}\text{C}$
- Operating altitude: 3000 meters
- Power: 6 type AAA batteries 1.5 V
- Dimensions: 205 x 98 x 46 mm
- Weight: 475 g with batteries included
- Accessories included: 6 size AAA batteries, one pair of test lead extension, one pair of stackable cable extension, one pair of heavy duty alligator clips, operation manual and carrying pouch

Model DC80L - Voltage and Current Calibrator

Features:

- Measures and simulates electrical voltage from 0 to 110 mV and from 0 to 15 V
- Measures and simulates electrical current from 0 to 24 mA
- Accuracy: ± 0.05 % F.S. + 5 counts to V and mV
- Accuracy: ± 0.03 % F.S. + 5 counts to mA
- 24 Vdc supply for loop power
- Rated input impedance: 2 M Ω , < 100 pF
- Maximum output current in voltage mode: 1 mA
- Temperature resolution: 0.1 $^{\circ}\text{C}$
- Resistance resolution: 0.1 Ω
- Maximum allowed voltage between terminals or terminals and ground: 30 V
- Temperature unit selection from $^{\circ}\text{C}$ and $^{\circ}\text{F}$
- Low battery indication
- Operating temperature: 0 $^{\circ}\text{C}$ ~ 50 $^{\circ}\text{C}$
- Storage temperature: -40 $^{\circ}\text{C}$ ~ 60 $^{\circ}\text{C}$
- Temperature effect on measurement/simulation: 0.005 % / $^{\circ}\text{C}$ from -10 $^{\circ}\text{C}$ ~ 18 $^{\circ}\text{C}$ and 28 $^{\circ}\text{C}$ ~ 55 $^{\circ}\text{C}$
- Operating relative humidity: 95 % up to 30 $^{\circ}\text{C}$, 75 % up to 40 $^{\circ}\text{C}$ and 45% up to 50 $^{\circ}\text{C}$
- Operating altitude: 3000 meters
- Power: 6 type AAA batteries 1.5 V
- Dimensions: 205 x 98 x 46 mm
- Weight: 475 g with batteries included
- Accessories included: 6 size AAA batteries, one pair of flying probes, one pair of alligator clips, operation manual and carrying pouch
- Optional external power adaptor

Measuring and Simulation of Electrical Voltage

TYPE	RANGE	RESOLUTION	ACCURACY
Measure V/mV	0~110 mV	0.01 mV	+/- 0.05 % F.S. + 5 counts
	0~15 V	0.001 V	
Simulate V/mV	0~110 mV	0.01 mV	
	0~15 V	0.001 V	

Measuring and Simulation of Electrical Current

TYPE	RANGE	RESOLUTION	ACCURACY
Measure and Simulate	0 ~ 24 mA	0 to 0.001 mA	+/- 0.03 % F.S. + 5 counts

