

Voltage and current calibrator **DC80L**

Technical description

Characteristic

- 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: $\pm 0.05\%$ F.S. + 5 counts to V and mV
- accuracy: $\pm 0.03\%$ F.S. + 5 counts to mA
- 24 Vdc supply for loop power
- rated input impedance: $2\text{ M}\Omega$, $< 100\text{ pF}$
- maximum output current in voltage mode: 1 mA
- temperature resolution: $0.1\text{ }^\circ\text{C}$
- resistance resolution: $0.1\text{ }\Omega$
- 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: $0\text{ }^\circ\text{C} \sim 50\text{ }^\circ\text{C}$
- storage temperature: $-40\text{ }^\circ\text{C} \sim 60\text{ }^\circ\text{C}$
- temperature effect on measurement/simulation: 0.005% / $^\circ\text{C}$ from $-10\text{ }^\circ\text{C} \sim 18\text{ }^\circ\text{C}$ and $28\text{ }^\circ\text{C} \sim 55\text{ }^\circ\text{C}$
- operating relative humidity: 95 % up to $30\text{ }^\circ\text{C}$, 75 % up to $40\text{ }^\circ\text{C}$ and 45% up to $50\text{ }^\circ\text{C}$
- 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
- additional accessories:
 - 6 size AAA batteries
 - one pair of flying probes
 - one pair of alligator clips
 - operation manual and
 - case
- optional external power adaptor



Type	Range	Resolution	Accuracy
measurement V/mV	(0 ÷ 110) mV	0,01 mV	$\pm(0,02\% + 0,01\text{ mV} / 0,003\text{ V})$
	(0 ÷ 15) V	0,001 V	
simulation V/mV	(0 ÷ 100) mV	0,01 mV	
	(0 ÷ 15) V	0,001 V	

Type	Resolution	Accuracy
(0 ÷ 24) mA measurement and simulation	0,001 mA	0,015% +0,003 mA

Ordering example

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