

Clamp Meter PCE-DC 41



Clamp Meter PCE-DC 41

Voltage metering up to 600 V / current metering up to 600 A / CAT III 600 V

Electrical resistance metering up to 1000 Ω / contact-free measuring of electrical conductors

The clamp meter PCE-DC 41 can measure voltages up to 600 V, currents up to 600 A and electrical resistance up to 1000 Ω . To perform a measurement, you can either use the measuring leads, which are included in the package of the clamp meter, or you can use the integrated clamp mechanism. By using the clamp of the clamp meter, you are able to measure the electrical parameters of an electrical conductor contact-free and without disconnecting it. You can also check the continuity with the clamp meter.

Due to its compact design and light weight, the device is well-suited for mobile use. When using the clamp mechanism, it is also possible to run the clamp meter with one hand only. The measured data is shown on the large backlit 4-digit display. By using the peak-hold or data-hold function, you can also freeze the readings on the display. The auto power-off function saves battery power, when the device is not in use.

- ▶ Voltage: 600 V AC/DC
- ▶ Current: 600 A AC/DC
- ▶ Electrical Resistance: 1000 Ω
- ▶ Clamp mechanism
- ▶ Continuity check
- ▶ Peak- and data-hold function
- ▶ Measuring leads included in the package
- ▶ 4-digit display
- ▶ Display backlight
- ▶ Auto power-off

Specifications

Technical specifications

Direct voltage

	Range	Resolution	Accuracy
Input impedance: 1 M Ω	600 V	0.1 V	$\pm 1\% + 2$ digits

Direct voltage (peak model)

Input impedance: 1 M Ω	600 V	0.1 V	$\pm 1.5\% + 8$ digits
	0.0 ... 0.01 in	0.0 ... 0.01 in	0.0 ... 0.01 in

Alternating voltage

Input Impedance: 1 M Ω	600 V	0.1 V	$\pm 1.2\% \pm 5$ digits (50 ... 500 Hz)
-------------------------------	-------	-------	---

Alternating voltage (peak model)

Input impedance: 1 M Ω	600 V	0.1 V	$\pm 1.7\% + 10$ digits
-------------------------------	-------	-------	-------------------------

Direct current

60 A	0.01 A	$\pm 2\% + 5$ digits
600 A	0.1 A	

Direct current (peak model)

600 A	0.1 A	$\pm 2.5\% + 8$ digits
-------	-------	------------------------

Alternating current

			$\pm 2\% + 5$ digits (50...60 Hz)
60 A	0.01 A		
600 A	0.1 A		$\pm 3\% + 5$ digits (60...500 Hz)

Alternating current (peak model)

600 A	0.01 A	$\pm 2.5\% + 10$ digits
-------	--------	-------------------------

Electrical resistance

1000 Ω	0.1 Ω	$\pm 1\% + 2$ digits
---------------	--------------	----------------------

Continuity check

Buzzer function
<40 Ω

General specifications

Display	4-digit LCD maximum reading: 6200
Sampling rate	3 times/s
Power supply	2 x 1.5 V AAA batteries
Batter life	50 hours (without buzzer backlight function)
Auto Power off	after 30 minutes of inactivity
Operating conditions	0.0 $^{\circ}\text{C}$... +40 $^{\circ}\text{C}$ / < 70 % RH 0.0 $^{\circ}\text{F}$... +104 $^{\circ}\text{F}$
Storage conditions	-10 $^{\circ}\text{C}$... +60 $^{\circ}\text{C}$ / < 80 % RH +14 $^{\circ}\text{F}$... +140 $^{\circ}\text{F}$
Maximum clamp opening	\varnothing 25 mm / \varnothing 0.1 in
Dimensions	210 mm x 62 mm x 36 mm 8.26 in x 2.44 in x 1.41 in
Weight	273 g / 0.6 lbs with batteries

Subject to change