

Technical Current Clamp PCE-LCT 1

Digital Clamp Meter to test leakage current / RMS measurement / continuity and resistance test / measures voltage up to 600 V

With the PCE-LCT 1 Clamp Meter it is possible to measure leakage currents up to a range of 100 A. PCE-LCT 1 Clamp Meter can measure leakage currents which appear when current flows through electrical conductors which are not designed for conduction current. The PCE-LCT 1 Clamp Meter can detect leakage currents and show them on the display. With the help of the PCE-LCT 1 Clamp Meter you can detect insulation failures in places where machines cannot be disconnected, however insulation must be checked, as for instance according to the VDE 701/702 standard. The PCE-LCT 1 Clamp Meter measures current flow, voltage up to 600 V, resistance and continuity. The PCE-LCT 1 is the ideal instrument for electricians according to the VDE standard. The PCE-LCT 1 has a compact design which allows to be placed in any pocket. The rubber protection protects the instrument against falls, so it is the ideal instrument to be used in electrical inspections and in workshops.

- Measures leakage current
- Measures current up to 100 A
- Measures voltage up to 600 V
- Continuity test
- Measures resistance up to 400 Ω
- Digital bar graph
- High resolution
- Max./min. values are viewed on the display
- Rubber protector
- Test cables are included

Technical Specifications

Leakage current and current (AC A)

Measurement ranges	Resolution	Accuracy	
		50 / 60 Hz	400 Hz ... 1 kHz
40 mA	10 μ A	\pm (1 % + 0,5 mA)	\pm (4,5 % + 0,5 mA)
400 mA	100 μ A	\pm (3 % + 5 mA)	\pm (3 % + 5 mA)
4 A	1 mA	\pm (4 % + 0,1 mA)	\pm (4 % + 0,1 A)
40 A	10 mA	\pm (4 % + 1 A)	\pm (4 % + 1 A)
80 A	10 mA	\pm (2,5 % + 1 A)	\pm (3 % + 1 A)
80 A - 100 A	100 mA	\pm (5 % + 1 A)	\pm (5 % + 1 A)

Voltage (AC V)

Measurement ranges	Resolution	Accuracy	
		50 / 60 Hz	400 Hz ... 1 kHz
400 V	1 V	$\pm (1,5 \% + 2 \text{ digits})$	$\pm (2 \% + 4 \text{ digits})$

Resistance

Measurement ranges	Resolution	Accuracy	Alarm
400 Ω	0,1 Ω	$\pm (1 \% + 2 \text{ digits})$	Measurement value <38 Ω

General Technical Specifications

Display	3 3/4
Measured electrical properties	AC V, AC A, resistance
Security standards	CAT III 300 V / CAT II 600 V
Diameter of the clip	30 mm
Input impedance	10 M Ω
Registration rate	2 Hz (numerical values), 20 Hz (bar graph)
Operating temperature	-10 °C ... 50 °C
Operating humidity	<85 % H.r.
Storing temperature	-20 °C ... 60 °C
Auto shut-off	after 30 minutes
Power	9 V battery
Input current	10 mA
Weight	200 g
Dimensions	210 x 62 x 35,6 mm

Delivery contents:

- 1 x PCE-LCT 1 Clamp Meter
- 1 x 9 V battery
- 2 x test cables
- 1 x carrying case
- 1 x user's manual