

Technical HVAC Meter PCE-LCT 1

HVAC Meter PCE-LCT 1 to test leakage current / RMS measurement / continuity and resistance test / measures voltage up to 600 V

With the HVAC Meter PCE-LCT 1 it is possible to measure leakage currents up to a range of 100 A. The HVAC Meter can measure leakage currents which appear when current flows through electrical conductors which are not designed for conduction current. The HVAC Meter can detect leakage currents and show them on the display. With the help of the HVAC 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 HVAC Meter measures current flow, voltage up to 600 V, resistance and continuity. The HVAC Meter is the ideal instrument for electricians according to the VDE standard. The HVAC Meter 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	$\pm (1 \% + 0,5 \text{ mA})$	$\pm (4,5 \% + 0,5 \text{ mA})$
400 mA	100 μ A	$\pm (3 \% + 5 \text{ mA})$	$\pm (3 \% + 5 \text{ mA})$
4 A	1 mA	$\pm (4 \% + 0,1 \text{ mA})$	$\pm (4 \% + 0,1 \text{ A})$
40 A	10 mA	$\pm (4 \% + 1 \text{ A})$	$\pm (4 \% + 1 \text{ A})$
80 A	10 mA	$\pm (2,5 \% + 1 \text{ A})$	$\pm (3 \% + 1 \text{ A})$
80 A - 100 A	100 mA	$\pm (5 \% + 1 \text{ A})$	$\pm (5 \% + 1 \text{ A})$

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