EARTH TESTER

PCE-ITE 55B



- **Testing according to EN 61557 and DIN VDE0100**
- **Insulation resistance**
- **RCD Type A, AC, B, B+, and F**
- **Line and fault loop impedance**
- **Continuity test**
- **Voltage, phase rotation, and frequency**
- **Testing of EV charging stations with optional test adapter**
- **Includes test leads and carrying case**

The earth tester is a multifunctional instrument designed for testing electrical safety in accordance with standards EN 61557 and DIN VDE 0100. It offers many functions specifically designed for the inspection and evaluation of electrical installations. The earth tester can perform precise measurements of insulation resistance between live parts and grounding. In the RCD test, both Type-A and AC, B, B+, and F-controlled residual current circuit breakers can be efficiently tested, ensuring the proper functioning of these vital protective devices.

The earth tester allows for quick and accurate measurement of loop resistance to ensure that, in the event of a fault current, there is sufficient resistance to ensure a safe shutdown. Additionally, measuring the protective conductor resistance allows for checking the continuity of conductors and connections. A graphical representation of the wiring helps the operator perform measurements accurately.
The brightness of the display can be adjusted in 4 levels. An adjustable alarm tone warns of errors or exceeding the limit. The adjustable auto-off time of the earth tester prevents accidental battery discharge. The device comes with test leads that meet the specific requirements of CAT III / 600 V and CAT IV / 300V. The earth tester offers a user-friendly interface, clear display elements, and a robust construction to meet the demands in various environments.

Specification

AC voltage	
Measuring range	0 ... 550 V
Resolution	1 V
Accuracy	±(2 % of Rd +2 digits)
Insulation resistance	
Test voltage DC	50V
Measuring range	0,1 ... 80 M Ω
Resolution	0,001 M Ω
Accuracy	±(5% of Rd +3 digits)
Insulation resistance	
Test voltage DC	100V, 250V
Measuring range	0,1 ... 199,9 M Ω
Accuracy	±(5% of Rd +3 digits)
Insulation resistance	
Test voltage DC	500V, 1000V
Measuring range	0,1 ... 199,9 M Ω
Resolution	0,001 M Ω
Accuracy	±(2 % of Rd +3 digits)
Insulation resistance	
Test voltage DC	500V, 1000V
Measuring range	200 ... 999 M Ω
Resolution	1 M Ω
Accuracy	±(10 % of Rd)
Continuity test	
Measuring range	0,1 ... 20 Ω
Continuity test	
Measuring range	20 ... 1999 Ω
Impedance	
Measuring range	0,25 ... 9999 Ω
Frequency	
Measuring range	10 ... 499,9 Hz
Resolution	0,1 Hz
Accuracy	0.2 % +1 digit

General technical data	
Display type	TFT colour display
Display size	3,3 Inch
Operating time	15 h
Automatic power-off from...to	0.5 ... 60 min.
RCD test current characteristic	A, AC, B, B+, F
RCD tripping time	0 ... 500 mS
Contact voltage	0 ... 99.9 V
Menu language	English, German
(Rechargeable) battery	6 x 1,5 V AA battery , Alkali-manganese
Capacity	3000 mAh
Operating conditions	0 ... 40 °C , 0 ... 95 % RH
Storage conditions	-10 ... 70 °C , 0 ... 90 % RH
Dimensions (L x W x H)	250 x 135 x 107 mm
Weight	1300 g