PCE-ET 3000

Earth resistance voltage tester for building checks and controls

Earth resistance voltage tester measures the lightning rods or lightning rod earth resistance in buildings. It possesses a hermetically sealed enclosure and meets securrity standard VDE 0413, which is necessary for technicians who work outdoors. It is ideal for measuring ground and lighting rod electrodes, as well as small ground systems, resistance voltage and continuity leads measurements. The most modern computation systems reduces to a minimum voltage and ground electrodes influences.

- Frequency test of 820 Hz
- Battery life indicator
- Overload protection
- Data Hold
- Security: IEC-1010-1 and CAT III 300 V
- 3½ digit LCD (max. 2000)
- 15 m red wire with red plug, 10 m yellow wire, 5 m green wire; auxiliary earth spikes, batteries and user's manual
- ISO calibration certificate (optional)

Technical specifications

	Range	Resolution	Accuracy
Earth resistance	20 / 200 / 2000 Ω	10 / 100 mΩ / 1 Ω	±2% +2 pos.
AC voltage	0 to 200 V AC 50/60 Hz	-	±3% + 2 pos.
Minimum voltage	0.01 Ω		
Current	2 mA / rms		
Resistance indication	indicates if electrode resistance is into the range parameters		
Operating conditions	0 to 50°C/ 5 to 95% r.h.		
Power	8 batteries (1.5V)		
Dimensions	250 x 190 x 120 mm		
Weight	1.5 kg		
Approvals	IEC-1010-1; CAT III 300 V		

Contents

PCE-ET 3000, 15 m red control wire, 10 m yellow control wire, 5 m green control wire, earth spikes and user's manual

Model No.	Description
PCE-ET 3000	Earth resistance voltage tester

Optional accessories

CAL-ERD	ISO certificate

PCE-MO 2001

Waterproof miliohms tester

This miliohms tester has ingress protection against water jets and can measure resistance from 100 µΩ to 2000 Ω. Measurement values are displayed on the 3½ digit LCD. To obtain the measurement value you must place the tester on the object you wish to measure a continuous current and the milliohms tester measures the voltage load.

- Engine coils, generators, transformers, e.g. in parallel, contiguous or compact computation circuits, switching equipments and relay measurements
- Chemical binding energy in mines, on planes, tracks, boats, as well as home and industrial systems
- Cyclic system (Ringbus) pitch controls in home and industrial environments
- Overhead line checks, maintenance or testing of switchboards, etc.
- ISO calibration certificate (optional)

Technical specifications

Measurement ranges	0 to 200 mΩ in steps of 100 µΩ / 0 to 2000 mΩ: 1 mΩ / 0 to 20 Ω: 10 mΩ / 0 to 200 Ω: 100 mΩ / 0 to 2000 Ω: 1 Ω
Accuracy	±0.75% of reading ±2 pos. full range temperature range of -15 to 55°C (for measure with control cable included in the delivery)
Control current	1 mA (range: 2000 Ω) 10 mA (ranges: 200 / 20 Ω)
Accuracy	±0.1%
Power	230 V AC, 50 / 60 Hz
Dimensions	250 x 180 x 200 mm
Weight	1.35 kg
Approvals	IEC-1010-1; CAT IV 20 V

Contents

PCE-MO 2001, test and power leads and user's manual (For U.K. customers: incl. U.K. AC Mains Power Adaptor)

Model No.	Description
PCE-MO 2001	miliohms tester

Optional accessories

CAL-2001	ISO certificate

PCE-MO 2002

Highly accurate, battery powered milliohm tester in a water resistant enclosure

This battery powered milli-ohm tester in a water resistant enclosure (sealed by a O-ring joint) allows measurement of resistance from 100 µΩ to 2000 Ω. It's ideal for on-site technicians thanks to it being battery powered. To detect the measurement value, a constant current is put through the object being measured and the fall in power of the object is then determined by ther device.

- Measurement system of 4 conductors
- 5 measurement ranges
- 3 test currents with fuse
- Overlaod protection
- Large display
- Information about the resistance of the line being tested
- Auto-Hold and Auto shut-off functions
- LED to indicate permitted overload limits for Rp, Rc and temperature
- ISO calibration certificate (optional)

Technical Data

Measurement ranges	0 ... 200 mΩ in steps of 100 µΩ / 0 ... 2000 mΩ: 1 mΩ / 0 ... 20 Ω: 10 mΩ / 0 ... 200 Ω: 100 mΩ / 0 ... 2000 Ω: 1 Ω
Accuracy	±0.5 % of reading ±2 pos. full range temperature range of -15 ... +55 °C (for measure with control cable included in the delivery)
Control current	1 mA (range: 2000 Ω) 10 mA (ranges: 200 / 20 Ω) 100 mA (ranges: 2000 mΩ / 200 mΩ)
Accuracy	±0.1 %
Power supply	8 batteries of 1,5 V
Dimensions	250 x 190 x 110 mm
Weight	1.5 kg
Approvals	IEC-1010-1; CAT IV 20 V

Contents

PCE-MO 2001, test leads, 8 batteries and user's manual

Model No.	Description
PCE-MO 2002	miliohms tester

Optional accessories

CAL-2002	ISO certificate