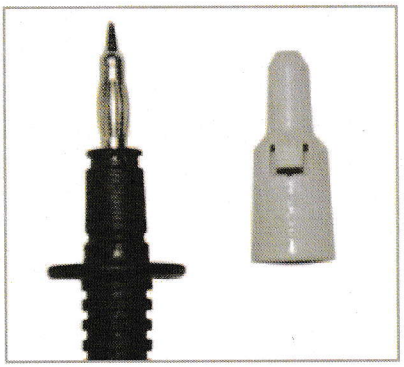
ΩMegaSafe EP 4 / EP 4Ex

Compact earth resistance tester

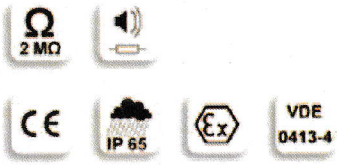
EP 4Ex

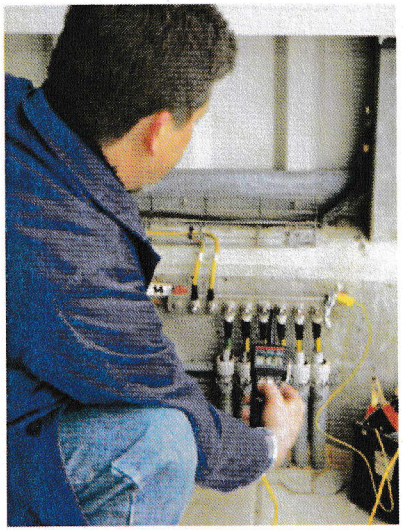


Test lines in accordance with
EN-61010-031 CAT III
Cap removable for CAT II environments

The ΩMegaSafe EP 4 is a manageable resistance measuring device for fast testing according to VDE 0413 of protective and grounding lines, equipotential bonding lines and lines at lightning arrester.

- Safe and universal between 10 mΩ and 2 MΩ
- High measurement current 0,2 A for Lo-Ω-range up to 10 Ω
- Fast compensation of measuring line per keypress
- Automatic pole change and storage of measurement results





Low resistance line tests

Easy testing of resistances in protective lines and grounding systems, equipotential bonding lines, shielding etc. in accordance with EN 61557-4 (VDE 0413-4).

Universal and safe

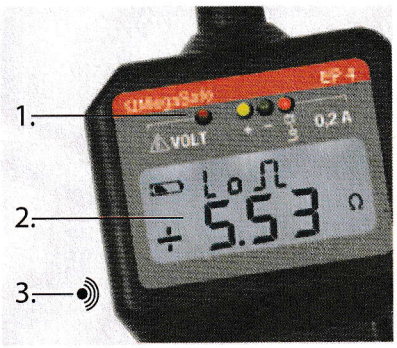
Measurements between 10 mΩ and 2 MΩ with extreme safety against external voltage

- Lo-Ω-measurement range up to 10 Ω with high measurement current 0,2 A
- further measurement ranges up to 2000 kΩ
- usable in mains up to 500 V
- acoustic and optic warning in case of external voltage, flashing indication of voltage value
- robust, manageable casing with attached test prod for heavy demands, IP 65

EP 4 for reliable and fast low resistance tests

Easy handling

- zero balance (compensation) of measuring line per keypress
- supports several measuring lines with an impedance up to 3,5 Ω (approximately 200 m) for quick results
- automatic pole change and storage of measurement results (can be switched off)



Three readout systems

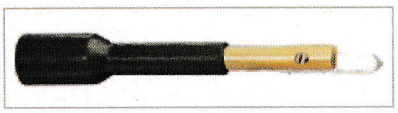
Unambiguous and rapid recognition of function, result and danger:

1. LED for external voltage, polarity and Lo-Ω-measurement with 0,2 A
2. clear display for measurment result and function with backlight
3. acoustic warning signal

Wide range of safety accessories

Test lines and battery are included in the delivery of the EP 4 (standard version) or EP 4Ex (Ex-proof version).

- 50 m measuring line on decoiler with standard socket, not for ex-areas
- 50 m measuring line on wire reel
- contact clip with standard socket
- leather bags
- sawtooth test prod for rusty and varnished test sites



Test prod for rusty and varnished test sites

Technical data

Line and resistance measuring device
EP 4 / EP 4Ex according to EN/IEC 61010-1 and EN/IEC 61557-4 (VDE 0413 part 4)
Ex-proof version EP 4Ex additionally according to DIN EN 60079-0 and 60079-11

EC type examination certificate (EP 4Ex)

Ⓔx II 2 G Ex ib IIC T4 ATEX 552826

Measurement ranges

10 Ω (Lo-Ω)	resolution	0,01 Ω
100, 2000 Ω	resolution	0,1 ... 1 Ω
20, 200, 2000 kΩ	resolution	0,01 ... 1 kΩ

Accuracy

1,5% + / - 4 digit at 20°C

Measurement current

10 Ω (Lo-Ω)-range:	200 mA
100 Ω-range:	20 mA
further ranges:	1 µA ... 20 mA

Open-circuit voltage

> 4 V

Measuring line balance

automatic 0-balance (CAL) up to 3,5 Ω

Digital indication

2-line LCD-display, 3 ½ digit, overflow indication via OL backlight

Voltage indication

red LED and acustic warning signal as well as indication of the value in Volt

Overvoltage protection

up to 400 V reversible via semiconductor, between 400 up to 500 V via special fuse

Overvoltage category

CAT III 300 V / CAT II 600 V according to EN/IEC 61010-1

Operating temperature

-10°C ... + 50°C

Power supply

battery 9 V-block AlMn IEC 6LR61 (also for Ex-proof version)
multistage BAT-indication
automatic switch-off

Casing

made of impact resistant ABS with unbreakable display cover

Protection category

IP 65, device can be used in moist environments

Dimensions/weight

60 x 230 x 40 mm
EP 4 180 g, EP 4Ex 220 g

Article number	Type / Label
83302	EP 4
83301	EP 4EX
	Accessories on page 52