

Ω MegaSafe EP 4 / EP 4Ex

Line tester and resistance measuring device

EP 4 standard model

EP 4Ex Ex-model according to ATEX

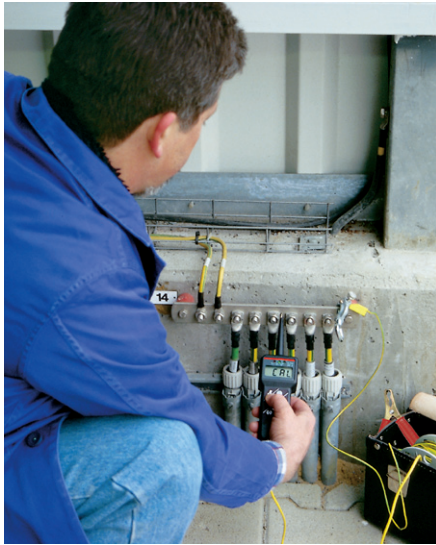


The **Ω MegaSafe EP 4** is a manageable resistance measuring device for fast testing according to **EN 61557-4** of protective leads, grounding cables, voltage equalising cables and lightning arrestor mains.

- Universal between 10 m Ω and 2 M Ω
- Unambiguous indication
2-line display with backlight
- High measurement current **0,2 A**
for Lo- Ω -range up to 10 Ω
- Voltage-proof up to **500 V**
integrated voltage indication
- Quick compensation of
measuring line per keypress
- Automatic pole change and
storage of measurement results

Ω MegaSafe EP 4 / EP 4Ex

Line tester and resistance measuring device



Low-resistance line tests

Easy testing of resistance in protective leads, grounding cables, voltage equalising cables, shielding etc. according to 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 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 hard demands, IP 65

EP 4 for reliable and fast low-resistance tests

Easy handling

- null balance (compensation) of measuring line per keypress
- usage of any measuring lines with an impedance up to 3,5 Ω (approximately 200 m) for quick results in big systems
- automatic pole change and storage of measurement results (disengageable)



Wide range of accessories

Test line (1m) and battery are included in delivery of the EP 4 (standard version) or EP 4Ex (Ex-version).

- 50m-measuring line on decoiler with standard bush (EPRH50)
- 50m-measuring line on wire decoiler (EPDH50)
- earth terminal with standard bush (EPEK)
- leather bag (EPLD)
- plastic case (EPKLT), not for ex-areas and decoiler
- saw-tooth test prod (EPSÄ) with integrated saw for testing on rust and colour



Three readout systems

Unambiguous, fast recognition of result, function and danger

1. noticeable LED for external voltage, polarity and Lo-Ω-measurements with 0,2 A
2. concise display for measurement reading and performance with backlight
3. acoustic warning signal

Technical data

Line tests and resistance measurement EP 4 / EP 4Ex according to EN/IEC 61010-1 and EN/IEC 61557-4 (VDE 0413 part 4)

Ex protective model EP 4Ex additionally according to DIN EN 50014 + 50020

EC type examination certificate (EP 4Ex)

Ex II 2 G EEx ib IIC T4 ATEX 552826

Ranges of measurement

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

Measuring 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 display

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

Voltage indication

red LED and acoustic warning signal as well as indication of the value in volt

Overvoltage protection

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

Surge voltage category

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

Working temperature

-10 ... +50°C

Supply

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

Casing

made of impact resistant ABS with unbreakable display cover protection category IP 65

Dimensions

60 x 230 x 40 mm, 180 g (Ex-version 220 g) incl. battery

Subject to technical modifications 01-2007. Made in Germany



only EP 4 Ex

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Tietzsch

Measurement + testing devices

Quality creates safety.