

# ΩMegaSafe ISO 1Ex ATEX

*Megohmmeter for Ex-areas*



Available from,  
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The **ΩMegaSafe ISO 1Ex** is a handy megohmmeter for testing insulating resistances and bleeder resistors up to 2 TΩ for potentially explosive atmospheres.

- safe and multifunctional, 10 kΩ up to 2 TΩ
- unambiguous indication, doublespaced display with illumination and LEDs for functions
- test voltage 32, 100, 500 V
- indication of external voltage and integrated voltage indication up to 500 V
- push-button for quick discharge of capacitances



BVS 06 ATEX E 130

# ΩMegaSafe ISO 1Ex

Megohmmeter for Ex-areas



**Megohmmeter in Ex-areas**  
with EN 61557-2 (VDE 0413-2)  
Zuschaltbare Ableitprüfung nach EN 61340

### Multifunctional and safe

Measurements between 10 kΩ up to 2 GΩ / 2 TΩ with high safety against spark formation

- sturdy and handible casing with attached test prod, IP 65
- 4/7 measurement ranges with automatic selection
- acoustic and optic alert at external voltage, flashing displayed value of voltage at  $\geq 32$  V
- push-button for quick discharge of capacitances

### Reliable and Fast

#### Easy application

- Selection of test voltage by activating a push-button
- simultaneous indication of the test voltage and the value of resistance at the doublespaced display
- alert at voltages with more than 32 V and quick discharge of capacitances by activating a push-button before disconnecting the test line for safe application in Ex-areas
- Quick measurements in GΩ ranges, Measurement option TΩ only selectable if required (3 zusätzliche Bereiche)



### 3 display system

Umambiguous, fast identification of result, function and danger

1. noticeable light emitting diode for external voltage, active checking and selected test voltage
2. clear display for test voltage and value with backlight
3. audible warning signal



### Accessories

#### Delivery

- 2 test lines 1000 V red and black 80 cm
- 2 safety clip terminals red and black
- adapter for safe connection of the test line with the electrode of the ΩMegaSafe ISO 1Ex
- leather bag
- small leather bag



### For measurements up to 2 TΩ special accessories:

Measuring electrodes are required for measurements of bleeder and resistors and surface resistances. The measuring lines are special-purpose cables and specifically insulated.

- ISO-TΩ measuring line
- Annular electrode in accordance with EN 61 340-5-1 and EN 61 340-2-3 for measurements of surface resistance and resistivity. Weight: 0,515 kg
- Electrode in accordance with EN 61 340-4-1 and EN 61 340-2-3 for measurements of surface and bleeder resistance. Weight: 2,27 kg
- big EP leather bag

### Technical data

High-impedance megohmmeter ΩMegaSafe ISO 1Ex in accordance to EN/IEC 61010-1 and EN/IEC 61557-2 (VDE 0413 part 2)  
Ex protected design in accordance to EN 60079-0 und EN 60079-11

### EC Type Examination Certificate

Ex II 2 G Ex ib IIBT4 BVS 06 ATEX E130

### Measurement ranges

|          |                   |           |
|----------|-------------------|-----------|
| 1,999 MΩ | resolution 1 kΩ   | 5% +/- 5D |
| 19,99 MΩ | resolution 100 kΩ | 5% +/- 5D |
| 199,9 MΩ | resolution 1 MΩ   | 5% +/- 5D |
| 1,999 GΩ | resolution 1 GΩ   | 5% +/- 5D |

with selected measurement option TΩ

|          |                   |            |
|----------|-------------------|------------|
| 19,99 GΩ | resolution 10 GΩ  | 10% +/- 5D |
| 199,9 GΩ | resolution 100 GΩ | 10% +/- 5D |
| 1999 GΩ  | resolution 1 GΩ   | 25% +/- 5D |

### Precision

5% +/- 5 digit at 20°C

### Test voltage/measurement current

|       |        |         |
|-------|--------|---------|
| 32 V  | 64 μA  | +/-20 % |
| 100 V | 200 μA | +/-20 % |
| 500 V | 1 mA   | +/-20 % |

### push-button

for quick discharge of capacitances

### Digital display

Doublespaced LCD display, 3 1/2 -digit, bleeder indication by OL, backlight

### Voltage indication

red LED and audible warning signal as well as indication of the value in V  
24 - 400 V AC  
15 - 500 V DC

### Surge voltage category

CAT IV 600 V  
in accordance with EN/IEC 61010-1

### Working temperature

-10 ... +50°C

### Power supply

battery 9 V block AIMn IEC 6LR61 (type, see certificate/instructions), multistage BAT display, automatic switch off

### Casing

of robust ABS with unbreakable display cover, protection category IP 65, antistatic coated

### Weights and measures

60 x 230 x 40 mm, 180 g (Ex model 220 g) including battery

Subject to technical changes 01-2010. Made in Germany

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Measurement + testing devices

Quality creates safety.