

## ΩMegaSafe ISO 1Ex

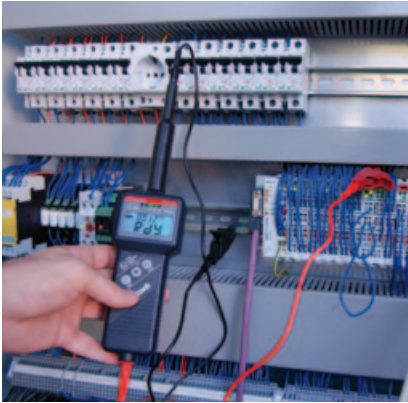
Compact megohmmeter for potentially explosive atmospheres



The ΩMegaSafe ISO 1Ex is a compact high-impedance testing device for insulating resistances and bleeder resistors in potentially explosive atmospheres.

- Safe and universal between 1 kΩ and 2 TΩ
- Test voltage 32, 100, 500 V
- Indication of external voltage and integrated voltage indication up to 500 V
- Push-button for rapid discharge of capacitances





### Easy insulation tests

In Ex-areas with EN 61557-2 (VDE 0413-2), connectible bleeder test in accordance with EN 61340

### Universal and safe

Measurements between 10 k $\Omega$  and 2 G $\Omega$  / 2 T $\Omega$  with extreme safety against sparking

- robust, manageable casing with fixed test prod, IP 65
- 4/7 measurement ranges with automatic range selection
- acoustic and optic warning in case of external voltage, flashing indication at voltages > 32 V
- push-button for rapid discharge of capacitances

### Reliable and fast

Easy handling

- test voltage selection per push-button
- simultaneous indication of test voltage and resistance value on the two-line display
- warning against voltages > 32 V and rapid discharge of capacitances per push-button
- fast measurements in G $\Omega$  ranges, measurement option T $\Omega$  switchable (3 additional measurement ranges)



### Three readout systems

Unambiguous and rapid recognition of function, result and danger:

1. LED for external voltage, active testing and selected test voltage
2. display for test voltage and measurement value with backlight
3. acoustic warning signal

### Accessories

- 2 test lines 600 V CAT III red and black 80 cm
- 2 safety crocodile clips 1000 V CAT III red and black
- leather bags
- attachable test probe



### Special accessories for measurements up to 2 T $\Omega$ :

Special measurement lines and electrodes are required for measurements at bleeder and surface resistances

- ISO-T $\Omega$  measuring line
- annular electrode in accordance with EN 61340-5-1 and EN 61340-2-3 for measurements of surface resistance and volume resistivity weight: 0,515 kg
- electrode in accordance with EN 61340-4-1 and EN 61340-2-3 for measurements of surface and bleeder resistance weight: 2,27 kg



Attachable test probe CAT III (not suitable for Ex-application)

### Technical data

High-impedance megohmmeter  $\Omega$ MegaSafe ISO 1Ex according to EN/IEC 61010-1 and EN/IEC 61557-2 (VDE 0413 part 2)  
Ex-proof version in accordance with EN 60079-0 und EN 60079-11

EC type examination certificate (ISO 1Ex)

II 2 G Ex ib IIBT4 BVS 06 ATEX E130  
I M2 (M1) EX ib [ia] I BVS 06 ATEX E130

Measurement ranges

1,999 M $\Omega$	resolution 1 k $\Omega$	5% +/- 5D
19,99 M $\Omega$	resolution 10 k $\Omega$	5% +/- 5D
1,999 G $\Omega$	resolution 1 M $\Omega$	5% +/- 5D

with selected measurement option T $\Omega$

19,99 G $\Omega$	resolution 10 M $\Omega$	10% +/- 5D
199,9 G $\Omega$	resolution 100 M $\Omega$	10% +/- 5D
1999 G $\Omega$	resolution 1 G $\Omega$	25% +/- 5D

Accuracy

5% +/- 5 digit at 20°C

Test voltage/measurement current

32 V	64 $\mu$ A	+/-20 %
100 V	200 $\mu$ A	+/-20 %
500 V	1 mA	+/-20 %

Discharge push-button

for rapid discharge of capacitances

Digital indication

2-line LCD-display, 3 1/2 digit, overflow indication via OL backlight

Voltage indication

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

Overvoltage category

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

Operating temperature

-10°C ... + 50°C

Power supply

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

Casing

made of impact resistant ABS with unbreakable display cover, antistatic coated

Protection category

IP 65, device can be used in moist environments

Dimensions/weight

60 x 230 x 40 mm / 220 g

Article number	Type / Label
83310	$\Omega$ MegaSafe ISO 1EX
	Accessories on page 52