



6.000VDC

Technical data:	<b>G1-1A / G1-1M</b>
Test voltage:	0.05 .. 6.00 kV
Output:	30 W
Tripping current:	0 .. 500 $\mu$ A • 0 .. 5.00 mA
Interface:	Ethernet • digital interface 1
Line voltage:	230 V / $\pm$ 10 %; 49 .. 61 Hz
Dimensions:	19" / 4 HU; depth 360 mm
Weight:	15 kg / 14 kg



Front view G1-1A



Front view G1-1M



Rear view G1-1A, G1-1M

### High-voltage testing device direct current (DC)

The testing device, which is available also as an automatic device, allows flexible possibilities for use in manual and automated systems – for high-voltage testing and optionally for measurement of insulation resistance in systems, assemblies and components. For more detailed technical data, please see the table on back.

	Description	Dimensions	Item no.
High-voltage testing device DC	incl. touch control unit	19" / 4 HU	G1-1A
High-voltage testing device DC	for use in automated systems	19" / 4 HU	G1-1M

### Extension modules for the testing devices

	Technical data	for device type	Item no.
Insulation resistance measurement	Measurement range 2.50 / 25.0 / 50.0 M $\Omega$	G1-1A; G1-1M	G1-1A E02
Voltage readback	The module allows four-wire measurement by reading back the test voltage. Two high-voltage receptacles are also built into the back wall of the device	G1-1A; G1-1M	G1-1A E04
Additional digital outputs	Six additional digital outputs for controlling an external switching matrix	G1-1A; G1-1M	G1-1A E06
RS232-C	Alternative interface to Ethernet interface	G1-1A; G1-1M	G1-1A E11
USB	Alternative interface to Ethernet interface	G1-1A; G1-1M	G1-1A E12
Software package	ElutionDevice software package	G1-1A; G1-1M	N2-1A Z7A
Device driver	On request		
Calibration	Delivery with Elabo works calibration protocol	G1-1A; G1-1M	G1-1A E99
Calibration	Delivery with Elabo works calibration protocol when the "insulation resistance measurement" extension function is integrated	G1-1A; G1-1M	G1-1A E99-02

The description of the accessories can be found starting on page 108. Please also see our sample configurations starting on page 34. Technical specifications subject to change without notice.

## Device features G1-1A / G1-1M

**Elabo** BestPerformance

Device	G1-1A	G1-1M
<b>Applications</b>		
Manual use	●	
Automated use	●	●
<b>Operation</b>		
Touch display 4.3"	●	
Interface	●	●
Start button	●	
Reset button	●	●
<b>Interfaces</b>		
Ethernet	●	●
RS232-C	○	○
USB	○	○
Digital interface 1	●	●
Digital interface 2	○	○
2 Safety circuits	●	●
D/A Extension module	○	○
<b>Connections</b>		
Test probes front and back	●	●
Warning light connection at back	●	●
IEC connector at back	●	●
<b>Tests</b>		
High-voltage AC		
High-voltage DC	●	●
Insulation resistance measurement	○	○
Voltage readback	○	○
<b>Test voltages</b>		
Test voltage	0.05 .. 6.00 kV	
Residual ripple DC	< 0.1 %	
Adjusting speed ramp	0 .. 1 kV/s	
Voltage setting error	Typ. 10 V	
Voltage measurement error	0.5 % of meas. / ± 3 digit	
<b>Voltage measurement ranges</b>		
Measurement range 1 / resolution	500 µA / 1 µA	
Measurement range 2 / resolution	5.00 mA / 10 µA	
Current measurement error	0.5 % of meas. / ± 3 digit	
<b>Insulation resistance measurement<sup>1</sup></b>		
Test voltage DC	0.05 .. 6.00 kV	
Measurement range 1 / resolution	0.1 .. 2.50 MΩ / 10 kΩ	
Measurement range 2 / resolution	1 .. 25.0 MΩ / 100 kΩ	
Measurement range 3 / resolution	1 .. 50 MΩ / 1 MΩ	
Accuracy of measurement	2 % of meas. / ± 5 digit	
<b>Important technical data</b>		
Nominal capacity	30 W	
Short-circuit current	< 12 mA	
Mains connection	230 V / ± 10 %; 49 .. 61 Hz	
Dimensions	19" / 4 HU; Depth 360 mm	
Weight	15 kg	14 kg
Allowable humidity	25 .. 75 % rel.	
Working temperature	10 .. 50 °C	
Test time	0.5 .. 999.9 s	
Memory	min. 200 data sets	

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Flexibility is of prime importance with Elabo. That is why two versions of the devices in this line of equipment are available. Depending on the purpose, universal use or fully automated operation are possible.

● Standard ○ Optional

<sup>1</sup> Extension module required

Technical specifications subject to change without notice.