6.000VDC

Technical data	G1-1B / G1-1N
Test voltage:	0.05 .. 6.00 kV
Output:	12 W
Tripping current:	0 .. 20.0 µA • 0 .. 200 µA • 0 .. 2.00 mA
Interface:	Ethernet • digital interface 1
Line voltage:	230 V / ± 10%; 49 .. 61 Hz
Dimensions:	19“ / 4 HU; depth 360 mm
Weight:	15 kg / 14 kg

Front view G1-1B

Front view G1-1N

Rear view G1-1B, G1-1N

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. With its high test current resolution and wide measuring range for insulation resistance measurement, the unit is suitable for highly precise measurements in material investigations and also for insulation resistance measurement in the solar industry, for instance. 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	G1-1B
High-voltage testing device DC	for use in automated systems	19" / 4 HU	G1-1N

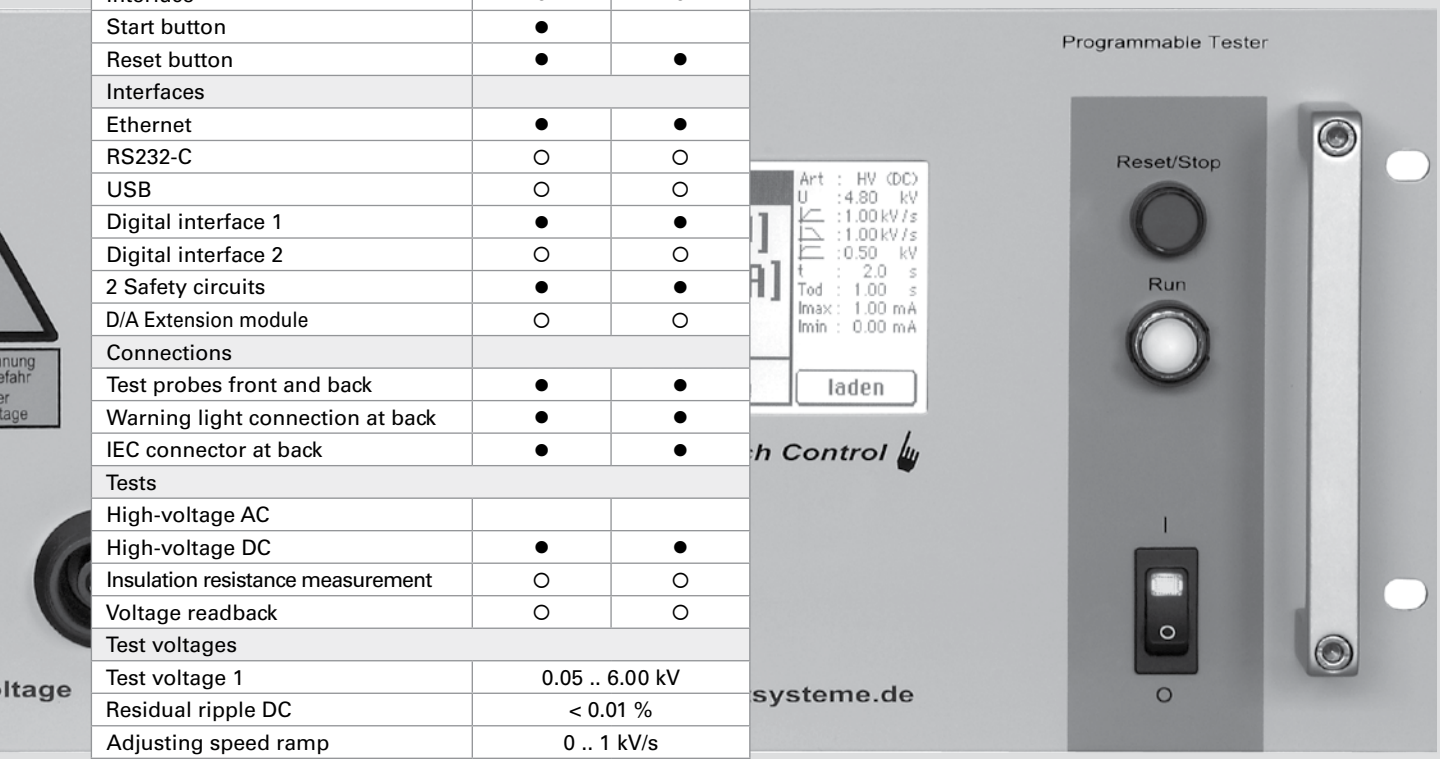
Extension modules for the testing devices

	Technical data	for device type	Item no.
Insulation resistance measurement	Measurement range 5.00 / 50.0 / 500 MΩ / 5.00 GΩ	G1-1B; G1-1N	G1-1B 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	G1-1B; G1-1N	G1-1B E04
Additional digital outputs	Six additional digital outputs for controlling an external switching matrix	G1-1B; G1-1N	G1-1B E06
RS232-C	Alternative interface to Ethernet interface	G1-1B; G1-1N	G1-1B E11
USB	Alternative interface to Ethernet interface	G1-1B; G1-1N	G1-1B E12
Software package	Elution*Device* software package	G1-1B; G1-1N	N2-1A Z7A
Device driver	On request		
Calibration	Delivery with Elabo works calibration protocol	G1-1B; G1-1N	G1-1B E99
Calibration	Delivery with Elabo works calibration protocol when the “insulation resistance measurement” extension function is integrated	G1-1B; G1-1N	G1-1B 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 G1-1B / G1-1N

Device	G1-1B	G1-1N
Applications		
Manual use	●	
Automated use	●	●
Operation		
Touch display 4.3“	●	
Interface	●	●
Start button	●	
Reset button	●	●
Interfaces		
Ethernet	●	●
RS232-C	○	○
USB	○	○
Digital interface 1	●	●
Digital interface 2	○	○
2 Safety circuits	●	●
D/A Extension module	○	○
Connections		
Test probes front and back	●	●
Warning light connection at back	●	●
IEC connector at back	●	●
Tests		
High-voltage AC		
High-voltage DC	●	●
Insulation resistance measurement	○	○
Voltage readback	○	○
Test voltages		
Test voltage 1	0.05 .. 6.00 kV	
Residual ripple DC	< 0.01 %	
Adjusting speed ramp	0 .. 1 kV/s	
Voltage setting error	Typ. 5 V	
Voltage measurement error	0.5 % of meas. / ± 3 digit	
Voltage measurement ranges		
Measurement range 1 / resolution	20.0 µA / 0.1 µA	
Measurement range 2 / resolution	200 µA / 1 µA	
Measurement range 3 / resolution	2.00 mA / 10 µA	
Current measurement error	0.5 % of meas. / ± 3 digit	
Insulation resistance measurement[1]		
Test voltage DC	0.05 .. 6.00 kV	
Measurement range 1 / resolution	0.1 .. 5.00 MΩ / 10 kΩ	
Measurement range 2 / resolution	1 .. 50.0 MΩ / 100 kΩ	
Measurement range 3 / resolution	10 .. 500 MΩ / 1 MΩ	
Measurement range 4 / resolution	0.1 .. 5.00 GΩ / 10 MΩ	
Accuracy of measurement	1 % of meas. / ± 3 digit	
Important technical data		
Nominal capacity	12 W	
Short-circuit current	< 3 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	



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
[1] Extension module required
Technical specifications subject to change without notice.