



5000 VAC

<b>Technical data</b>	<b>G7-1G / G7-1T</b>
<b>High voltage:</b>	0 .. 2.50 • 5.00 kVAC 0 .. 10.00 • 100.0 mA 500 VA
<b>Protective earth conductor:</b>	0 .. 1.2 Ω; 6 oder 12 VAC; 10 .. 32 A
<b>Insulation resistance:</b>	50 .. 1.20 kVDC 10 / 100 MΩ • 1.00 GΩ
<b>Output:</b>	500 VA
<b>Interface:</b>	Ethernet • Digital interface 1
<b>Line voltage:</b>	230 V ± 10 %; 49 .. 61 Hz
<b>Dimensions:</b>	19" / 4 HU; depth 360 mm
<b>Gewicht:</b>	28 kg • 27 kg



Front view G7-1G



Front view G7-1T



Rear view G7-1G, G7-1T

**Alternating voltage combination testing device (HVAC)**

The testing device, which is also available as an automatic device, allows flexible possibilities for use in manual and automated systems for the measurement of protective earth conductor and insulation resistance as well as for high-voltage testing in systems, assemblies and components. Accessory components configurable especially for this model round out the system. For more detailed technical data, please see the table on back.

	Description	Dimensions	Item no.
HVAC combi-tester	incl. touch control unit and selector panel	19" / 4 HU	G7-1G
HVAC combi-tester	for use in automated systems, incl. selector panel	19" / 4 HU	G7-1T

**Extension modules for the testing devices**

	Technical data	for device type	Item no.
Passive current limiting	< 3 mA bei U= 5.00 kV	G7-1G; G7-1T	G7-1G E03
Burn function	Over-current tripping can be deactivated for troubleshooting	G7-1G; G7-1T	G7-1G E05
Additional digital outputs	Six additional digital outputs for controlling an external switching matrix	G7-1G; G7-1T	G7-1G E06
RS232-C	Alternative interface to Ethernet interface	G7-1G; G7-1T	G7-1G E11
USB	Alternative interface to Ethernet interface	G7-1G; G7-1T	G7-1G E12
Software package	ElutionDevice software package	G7-1G; G7-1T	N2-1A Z7B
Device driver	On request		
Calibration	Delivery with Elabo works calibration protocol	G7-1G; G7-1T	G7-1G E99-02

The description of the accessories can be found starting on page 108. Please also see our sample configurations starting on page 56. Technical specifications subject to change without notice.

Device	G7-1G	G7-1T
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		
1 test probe at back	●	●
PE sensor at back	●	●
System plug at back	●	●
Warning light connection at back	●	●
IEC connector at back	●	●
Tests		
High-voltage AC	●	●
Insulation resistance measurement	●	●
Passive current limiting safety feature <sup>1</sup>	○	○
Burn function <sup>1</sup>	○	○
High-voltage testing		
Test voltage 1	0.1 .. 2.50 kV	
Test voltage 2	0.2 .. 5.00 kV	
Adjusting speed ramp	0 .. 3.5 kV/s	
Voltage setting error	Typ. 10 V	
Voltage measurement error	1 % of meas. / ± 3 digit	
Current measurement ranges		
Measurement range 1 / resolution	10.00 mA / 10 µA	
Measurement range 2 / resolution	100.0 mA / 100 µA	
Current measurement error	1 % of meas. / ± 3 digit	
Active/apparent current measurement	●	
Measurement of PE conductor resistance		
Test voltage	6 / 12 VAC	
Test current	10 .. 32 A	
Resistance measurement range	0 .. 1.2 Ω <sup>2</sup>	
Voltage drop measurement range	0 .. 12 V <sup>2</sup>	
Method of measurement	4-wire-measurement	
Measurement error	1.5 % of meas. / ± 3 digit	
Insulation resistance measurement		
Test voltage DC	0.05 .. 1.20 kV	
Measurement range 1 / resolution	0.1 .. 10.0 MΩ / 100 kΩ	
Measurement range 2 / resolution	1 .. 100 MΩ / 1 MΩ	
Measurement range 3 / resolution	0.01 .. 1.00 GΩ / 10 MΩ	
Accuracy of measurement	1 % of meas. / ± 3 digit	
Principal technical data		
Nominal capacity	500 VA	
Short-circuit current	> 200 mA	
Mains connection	230 V ± 10 %; 49 .. 61 Hz	
Dimensions	19" / 4 HU; depth 360 mm	
Weight	28 kg	27 kg
Allowable humidity	25 .. 75 % rel.	
Working temperature	10 .. 50 °C	
Test time	0.1 .. 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> cannot be combined

<sup>2</sup> depending on test current

Technical specifications subject to change without notice.