

TECHNICAL DATA SHEET

Safety and function tester GLP1-g

Revision 5 / valid as of August 2022

Standard model GLP1-g

ELECTRICAL SPECIFICATION

Supply voltage	110 to 250 V ac
Mains frequency	47 to 63 Hz
No load current consumption	0.5 A, fuse T10A

GENERAL SPECIFICATION

Touch display	5"-color display, resolution 480 x 272 pixels
Data input / operation	via touch display
Time & date	clock with integrated calendar
Test plan storage	1,000 plans – fixed test step sequence – disabled test steps will be skipped
Test result storage	792 test results including all set values, measuring values, date and time for each test step additional storage of order relevant information.
Test connections	test socket ¹⁾ on the front panel of the tester test probe connection on the front panel of the tester industrial plug connection ^{1,2)} on the rear side of the tester high-voltage sockets on the front panel of the tester
Safety	key switch ³⁾ access to the test parameters protected by password 2 x Interlock-safety inputs HV, dual-circuit according to CAT IV, internal relays with positively driven contacts 2 x Interlock-safety inputs NV, dual-circuit according to CAT IV, internal relays with positively driven contacts input for emergency stop CE-conform, corresponding to VDE 0104 / EN 61010
Interfaces (communication)	Selectable between RS232, USB or LAN (LAN from Q4/2018) USB at the front for bar code scanner and service
Interfaces (standard)	outputs : result light, warning light inputs : foot-switch on the front side, only for high-voltage testers with test pistols, optional two-hand control
Interfaces (PLC-I/O-remote control)	outputs : GO, NO GO, test is running, ready, HV-on, I<min, disruptive discharge max. current per output : 100 mA Current consumption at pin 17 of the emergency stop circuit is not permitted for own control purposes inputs : start, stop, foot-switch 3 x selection of test programs => 7 x choice option of test programs
Calibration	by software, without opening up the tester
Software operator convenience	all inputs are checked by plausibility check. Therefore, wrong inputs should be avoided. The operator can display a detailed help text for any input option.
Operation languages	DE, US
Software languages	DE, US, IT, FR
Design & production	Made in Germany – Premium Quality

MECHANICAL SPECIFICATIONS

Variants	desktop device: incl. solid pedestals to put the tester into an inclined position rack-mount device: optional mounting kit for installation in a 19"-cabinet
Working environment	working temperature 0° to 50° C / 32° to 104° F, designed for a relative humidity of 0 to 80%rF without condensation!
Storage	storage temperature -10° to 60° C / 14° to 140° F, designed for a relative humidity of 0 to 90%rF without condensation!
Color	RAL 7035

Weight + dimensions	Enclosure ½ 19"	Enclosure full 19"	Weight / kg	Weight / lbs
GLP1-g 120	x		7,5	16,5
GLP1-g 130	x		11,8	26,0
GLP1-g 140		x	14,0	30,9
GLP1-g 141		x	7,0	15,4
GLP1-g 160		x	17,5	38,6
GLP1-g 220	x		6,5	14,3
GLP1-g 320	x		9,8	21,6
GLP1-g 321	x		9,8	21,6
GLP1-g 330	x		15,0	33,1
GLP1-g 331	x		15,0	33,1
GLP1-g 340		x	27,0	59,5
GLP1-g 341		x	27,0	59,5
GLP1-g 350		x	24,0	52,9
GLP1-g 360	x		28,0	61,7
GLP1-g 370	x		31,2	68,8
GLP1-g 380	x		6,5	14,3
GLP1-g 620	x		6,5	14,3
GLP1-g 630	x		11,8	26,0
GLP1-g 720	x		9,8	21,6
GLP1-g 730	x		15,0	33,1
GLP1-g 820	x		6,5	14,3
GLP1-g 830	x		6,5	14,3
GLP1-g 831		x	7,0	15,4
GLP1-g 840		x	7,5	16,5
GLP1-g 920	x		10,0	22,0
GLP1-g 930	x		11,5	25,4
GLP1-g 1011	x		10,8	23,8
GLP1-g 1012	x		10,8	23,8
GLP1-g 1020		x	17,8	39,2
GLP1-g 1021	x		16,0	35,3
GLP1-g 1022	x		16,0	35,3
GLP1-g 1030		x	16,5	36,4
GLP1-g 1031		x	16,5	36,4
GLP1-g 1032		x	16,5	36,4
GLP1-g 1040		x	22,0	48,5
GLP1-g 1041		x	21,0	46,3
GLP1-g 1042		x	21,0	46,3
GLP1-g 1122	x		11,8	26,0
GLP1-g 1130	x		11,8	26,0
GLP1-g 1220		x	17,0	37,5
GLP1-g 1221		x	15,7	34,6
GLP1-g 1222		x	16,0	35,3
GLP1-g 1224		x	18,5	40,8
GLP1-g 1225		x	17,5	38,6
GLP1-g 1226		x	17,5	38,6
GLP1-g 1230		x	22,2	48,9
GLP1-g 1231		x	21,2	46,7
GLP1-g 1232		x	21,2	46,7
GLP1-g 1320	x		13,8	30,4
GLP1-g 1520		x	18,5	40,8
GLP1-g 1530		x	23,9	52,7
GLP1-g 1720	x		6,5	14,3

Dimensions ½ 19" (W x D x H): 236 x 320 x 178 mm / 9,3" x 12,6" x 7,0"

Dimensions full 19" (W x D x H): 448 x 320 x 178 mm / 17,6" x 12,6" x 7,0"

- 1) Design of the test connections is freely configurable when order is placed
- 2) If industrial plug connection on the rear side of the tester is ordered, the test socket and/or connection for test probe are omitted
- 3) Key lock only for testers with dangerous test voltages and/or dangerous test currents

Earth / Ground-bond resistance test AC GLP1-g

TEST CURRENT AC

Test current max.	GLP1-g 120 : 10 A ac, adjustable from 1 A in steps of 1 A GLP1-g 130 : 30 A ac, adjustable from 1 A in steps of 1 A GLP1-g 140 : 40 A ac, adjustable from 1 A in steps of 1 A GLP1-g 150 : 75 A ac, adjustable from 1 A in steps of 1 A
Output frequency	47 to 63 Hz, depending on mains supply
Current control	automatic electronic constant current control with minimum current control and current interruption detector
Setting	default current + 0.5 A

VOLTAGE

Test voltage max.	6 / 12 V ac, selectable by operator, with automatic maximum voltage limitation
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RESISTANCE

Accuracy	high-precision 4-wire resistance measurement	
Measuring range total	0 to 1200 mΩ, depending on the flowing test current and the permitted maximum test voltage	
Resolution	1 mΩ or 100 mV	
Resistance measurement from...to	0 to 600 mΩ at 6 V and 10 A 0 to 200 mΩ at 6 V and 30 A 0 to 150 mΩ at 6 V and 40 A 0 to 80 mΩ at 6 V and 75 A	0 to 1200 mΩ at 12 V and 10 A 0 to 400 mΩ at 12 V and 30 A 0 to 300 mΩ at 12 V and 40 A 0 to 160 mΩ at 12 V and 75 A
Milli ohm offset range	0 to 300 mΩ	
Measuring accuracy	±0.25% of the final value ±1 mΩ	

EVALUATION

Evaluation related to	resistance or voltage drop
Upper resistance limit PE _{Rmax} or upper voltage limit PE _{Umax}	0 to 1200 mΩ freely definable, measured values equal to or under this limit are OK or alternately 0 to 12 V freely definable, measured values equal to or under this limit are OK
Lower resistance limit PE _{Rmin} or lower voltage limit	freely definable, measuring values under this limit are NOT OK This function serves for contact control. This function can be deactivated. The lower resistance limit is smaller than the upper limit
Undercurrent	If the test current is smaller than the default value during test process, the test result is NO GO

GENERAL

Test timer	0, 0.5 s, 0.6 s, 0.7 s to 1 h in steps of 0.1 s Exception: Test device with 30 A and probe connection on the front Applies the equipment: 120, 130, 620, 630, 1011, 1012, 1021, 1022, 1030, 1031, 1032, 1041, 1042, 1122, 1130, 1221, 1222, 1225, 1226, 1231, 1232, 1320, 1520 and 1720 If test current exceeds 10 A then test duration is max. 180 s!
Measuring technique of U & I	high-precision TRMS-measurement

Earth/Ground-bond resistance test DC GLP1-g

TEST CURRENT DC

Test current max.	40 A dc, beginning from 1 A adjustable in steps of 1 A
Current control	automatic electronic constant- current control with minimum-current control and current-interruption detector
Setting	default current + 0.5 A

VOLTAGE

Test voltage max.	6 / 12 V ac, selectable by operator, with automatic maximum voltage limitation
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RESISTANCE

Accuracy	high-precision 4-wire resistance measurement	
Total measuring range	0 to 6 Ω , depending on the flowing test current	
Resolution	1 m Ω or 10 mV	
Resistance measurement from...to	0 to 600 m Ω at 6 V and 10 A	0 to 1200 m Ω at 12 V and 10 A
	0 to 300 m Ω at 6 V and 20 A	0 to 600 m Ω at 12 V and 20 A
	0 to 150 m Ω at 6 V and 40 A	0 to 300 m Ω at 12 V and 40 A
	0 to 6000 m Ω at 6 V and 1 A	0 to 6000 m Ω at 12 V and 2 A
Milliohm offset range	0 to 300 m Ω	
Measuring accuracy	$\pm 0.25\%$ of the final value ± 1 m Ω	

EVALUATION

Evaluation related to	resistance or voltage drop
Upper resistance limit PE _{Rmax}	0 to ≤ 6 Ω freely definable, measured values equal to or under this limit are OK
Lower resistance limit PE _{Rmin}	freely definable, measured values under this limit are NOT OK This function serves for contact control. This function can be deactivated. The lower resistance limit is always smaller than the upper limit
Undercurrent	If test current is under the default value, test result is NO GO

GENERAL

Test timer	0, 0.5 s, 0.6 s, 0.7 s to 1 h in steps of 0.1 s
Measuring technique of U & I	high-precision averaging measurement

Insulation resistance test for devices with max. 1000 V GLP1-g

TEST VOLTAGE

Test voltage	50 to 1000 V dc, adjustable in steps of 10V
Voltage control	automatic electronic constant-voltage control with under-voltage control
Setting	default value + 5 V

CURRENT

Test current max.	2 to 3 mA dc, safety current limiting
Output power	max. 2 W

RESISTANCE

Measuring range	500 kΩ to 250 MΩ 500 kΩ to 10 GΩ
Resolution	100 kΩ
Measuring accuracy	up to 10 MΩ: ±0.5% of final value ±100 kΩ at a test voltage of min. 500 V up to 250 MΩ: ±0.75% of final value ±100 kΩ at a test voltage of min. 500 V up to 10 GΩ: ±0.5% of final value ±100 kΩ at a test voltage of min. 500 V

EVALUATION

Lower resistance limit Iso _{Rmin}	250 kΩ to 250 MΩ freely definable, measured values equal to or over this limit are OK from Q1/2017: 250 kΩ to 10 GΩ freely definable, measured values equal to or over this limit are OK
Upper resistance limit Iso _{Rmax}	250 kΩ to 250 MΩ freely definable, measured values above this limit are NOT OK from Q1/2017: 250 kΩ to 10 GΩ freely definable, measured values above this limit are NOT OK This function serves for contact control. This function can be deactivated. The upper resistance limit is always higher than the lower limit
Undervoltage	If test voltage is under the default value, the test result is NO GO

GENERAL

Test timer	0.5 s, 0.6 s, 0.7 s to 1 h in steps of 0.1 s
Ramp up timer (increase voltage)	0.5 s, 0.6 s, 0.7 s to 1 h in steps of 0.1 s
Measuring technique of U & I	high-precision averaging measurement
Discharge	≤200 ms, for a test object with a purely ohmic insulation resistance T = R x C, typical discharge time approx. 5 x T (R = discharge resistance, C = test object capacitance) provided that: the test connections have still to be connected with the test object during discharge process.
Discharge resistor	470 kΩ for IR with max. 1000 V test voltage
Residual voltage test	The test (test step) is only finished, when output voltage decreased under 60 V.
Internal resistance	500 kΩ at IR with max. 1000 V test voltage charge time of test object depends on the internal resistance min. charge time = internal resistance x capacity of test object [s]
Test points	L&N ↔ PE in the test socket or L&N ↔ test probe

Insulation resistance test for devices HV DC > 1000 V GLP1-g

TEST VOLTAGE

Test voltage	GLP1-g 820 : 50 to 4000 V dc, adjustable in steps of 10 V GLP1-g 830 : 50 to 6000 V dc, adjustable in steps of 10 V GLP1-g 831 : 50 to 6000 V dc, adjustable in steps of 10 V GLP1-g 840 : 100 to 10000 V dc, adjustable in steps of 10 V
Voltage control	automatic electronic constant-voltage control with under-voltage control
Setting	default value + 5 V

CURRENT

Test current max.	GLP1-g 820 : 10 mA dc, safety current limiting GLP1-g 830 : 10 mA dc, safety current limiting GLP1-g 831 : 20 mA dc, no safety current limiting GLP1-g 840 : 6 mA dc, safety current limiting
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RESISTANCE

Measuring range	500 kΩ to 1000 MΩ
Resolution	100 kΩ
Measuring accuracy	up to 10 MΩ: ±0.5% of the final value ±100 kΩ at a test voltage of min. 500 V up to 10 GΩ: ±0.5% of the final value ±100 kΩ at a test voltage of min. 500 V

EVALUATION

Lower resistance limit $I_{SO_{Rmin}}$	500 kΩ to 10 GΩ freely definable, measured values equal to or above this limit are OK
Upper resistance limit $I_{SO_{Rmax}}$	500 kΩ to 10 GΩ freely definable, measured values above this limit are not ok This function serves for contact control. This function can be deactivated The upper resistance limit is always higher than the lower limit
Undervoltage	If test voltage is smaller than the default value, the test result is NO GO

GENERAL

Test timer	0.5 s, 0.6 s, 0.7 s to 1 h in steps of 0.1 s
Ramp up timer (increase voltage)	0.5 s, 0.6 s, 0.7 s to 1 h in steps of 0.1 s
Measuring technique of U & I	high-precision averaging measurement
Discharge	≤200 ms, for a test object with a purely ohmic insulation resistance $T = R \times C$, typical discharge time approx. $5 \times T$ (R = discharge resistance, C = test object capacitance) provided that: the test connections have still to be connected with the test object during discharge process
Discharge resistor	for IR with tester max. 4 kV: 470 kΩ for IR with tester max. 6 kV: 33 kΩ for IR with tester max. 10 kV: 33 kΩ
Residual voltage test	The test (test step) is only finished, when output voltage decreased under 60 V
Test points	L&N ↔ PE in the test socket or L&N ↔ test probe

High-voltage test AC GLP1-g

TEST VOLTAGE

Test voltage and resolution	GLP1-g 320 : 50 to 6000 V ac potential-free @ 3 mA, resolution 1 V GLP1-g 330 : 50 to 6000 V ac potential-free @ 100 mA, resolution 1 V, ≥500 VA GLP1-g 340 : 50 to 6000 V ac potential-free @ 200 mA, resolution 1 V, 1000 VA GLP1-g 350 : 100 to 12000 V ac potential-free @ 100 mA, resolution 1 V, 1000 VA GLP1-g 360 : 125 to 15000 V ac not potential-free @ 50 mA, resolution 10 V GLP1-g 370 : 250 to 30000 V ac not potential-free @ 30 mA, resolution 50 V GLP1-g 380 : 400 to 50000 V ac not potential-free @ 25 mA, resolution 50 V
Voltage adjustment	manual adjustment: adjustable in steps of 1 V automatic presetting: adjustable in steps of 10 V
Voltage control	automatic electronic constant-voltage control with under-voltage control
Tolerance of setting	default value + 5V
Voltage measurement	true r.m.s value or peak value, selectable by operator
Measuring accuracy	devices up to 12 kV: ±0.25% of the final value devices up to 50 kV: ±1% of the final value
Output frequency	47 to 63 Hz, depending on mains supply

CURRENT

Test current and resolution	GLP1-g 320 : 3 mA, resolution 10 µA, safety current limiting with redundant overcurrent evaluation! Active safety current limiting – not via resistors! GLP1-g 330 : 100 mA, resolution 10 µA $I_{sc} \geq 100 \text{ mA}$ from $\geq 500 \text{ V}$, $\geq 500 \text{ VA}$ according to VDE, EN and IEC standards $I_{sc} \geq 200 \text{ mA}$ from $\geq 900 \text{ V}$, according to VDE, EN and IEC standards I_{sc} = short circuit current GLP1-g 340 : 200 mA, resolution 10 µA GLP1-g 350 : 100 mA, resolution 10 µA GLP1-g 360 : 50 mA, resolution 10 µA GLP1-g 370 : 30 mA, resolution 10 µA GLP1-g 380 : 25 mA, resolution 10 µA
Current measurement and evaluation	true r.m.s value or peak value measurement, selectable by operator total current or active current, selectable by operator
Measuring accuracy	devices up to 3 mA: ±0.5% of the final value ±0.01 mA devices from 25 mA up to 200 mA: ±0.25% of the final value ±0.1 mA

EVALUATION

Upper current limit / I _{max}	0 to max. test current (depending on tester model), measured values equal to or under this limit are OK
Lower current limit / I _{min}	0 to max. test current (depending on tester model), measured values under this limit are NOT OK This function serves for contact control. This function can be deactivated The upper current limit is always higher than the lower limit
Undervoltage	If test voltage is smaller than the default value, the test result is NO GO
Error signal	optic and acoustic

GENERAL

Test timer	0, 0.5 s, 0.6 s, 0.7 s to 100 h in steps of 0.1 s, mode: auto=test timer, mode: manual = continuous operation
Ramp up timer	0, 0.5 s, 0.6 s, 0.7 s to 100 h in steps of 0.1 s (0 = without ramp up)
Ramp down timer	0, 0.5 s, 0.6 s, 0.7 s to 100 h in steps of 0.1 s (0 = without ramp down)
Measurement technique of U & I	high-precision true r.m.s value or peak value measurement (V_{TRMS} - V_{Peak} - I_{TRMS} - I_{Peak})
Operating modes	4
<i>Manual</i>	The voltage is manually adjusted with the rotary knob. Test is performed without timer. Shutdown at overcurrent
<i>Automatic</i>	The voltage is automatically adjusted. Test is performed with timer. Shutdown at overcurrent or current outside the minimum / maximum limits.
<i>Burning</i> only at 6 kV to 20, 100 and 200mA	The voltage is manually adjusted with the rotary knob. Test is performed without timer. No shutdown at overcurrent. The test current is electronically limited to max. 100 mA.
<i>Pulsing</i> not at 6 kV to 3 mA	The voltage is manually adjusted with the rotary knob. Test is performed without timer. Shutdown at overcurrent for 0.5 s. Test current is electronically limited to max. 100 mA.
Discharge	0 to 100 ms provided that: the test connections have still to be connected with the test object during discharge process
Residual voltage test	The test (test step) is only finished, when output voltage decreased under 60 V

High-voltage test DC GLP1-g

TEST VOLTAGE

Test voltage and resolution	GLP1-g 820 : 50 to 4000 V dc not potential-free @ 10 mA, resolution 1 V negative pole PE (Earth - Ground) GLP1-g 830 : 50 to 6000 V dc not potential-free @ 10 mA, resolution 1 V negative pole PE (Earth - Ground) GLP1-g 831 : 50 to 6000 V dc not potential-free @ 20 mA, resolution 1 V negative pole PE (Earth - Ground)) GLP1-g 840 : 100 to 10000 V dc not potential-free @ 6 mA, resolution 1 V negative pole PE (Earth - Ground)
Ripple	GLP1-g 820 : $\pm 0.75\%$ Uout at 10 mA full load GLP1-g 830 : $\pm 0.5\%$ Uout at 10 mA full load GLP1-g 831 : $\pm 0.5\%$ Uout at 10 mA full load GLP1-g 840 : $\pm 0.5\%$ Uout at 6 mA full load
Voltage adjustment	manual adjustment: adjustable in steps of 1 V automatic presetting: adjustable in steps of 10 V
Voltage control	automatic electronic constant-voltage control with under-voltage control
Tolerance of setting	approx. 5 to 10 V above the default value, from no load to full load
Voltage measurement	average value
Measuring accuracy	$\pm 0.25\%$ of the final value ± 5 V

CURRENT

Test current	GLP1-g 820 : 10 mA, safety current limiting GLP1-g 830 : 10 mA, safety current limiting GLP1-g 831 : 20 mA, safety current limiting GLP1-g 840 : 6 mA, safety current limiting
Resolution	1 μ A
Current measurement and evaluation	average value
Measuring accuracy	$\pm 0.1\%$ of the final value ± 1 μ A

INSULATION RESISTANCE

Please see	max. 1 G Ω
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EVALUATION

Upper current limit / I _{max}	0 to max. test current (depending on tester model), measured values equal to or under this limit are OK
Lower current limit / I _{min}	0 to max. test current (depending on tester model), measured values under this limit are NOT OK This function serves for contact control. This function can be deactivated The lower current limit is always higher than the upper limit
Undervoltage	If test voltage is smaller than the default value, the test result is NO GO.
Error signal	optic and acoustic

GENERAL

Test timer	0, 0.5 s, 0.6 s, 0.7 s to 100 h in steps of 0.1 s, mode: auto=test timer, mode: manual=continuous operation
Ramp timer – ramp up	0, 0.5 s, 0.6 s, 0.7 s to 100 h in steps of 0.1 s (0 = ramp up off)
Ramp timer – ramp down	no timer, ramp down only with the internal discharge resistor, this is not a linear ramp but an e-function
Measurement technique of U & I	high-precision average value or peak value measurement ($V_{AVG} - V_{Peak} - I_{AVG} - I_{Peak}$)
Discharge	≤ 200 ms, for a test object with a purely ohmic insulation resistance $T = R \times C$, typical discharge time approx. $5 \times T$ (R = discharge resistance, C = test object capacitance) provided that: the test connections have still to be connected with the test object during discharge process
Discharge resistor	tester with max. 4 kV: 470 k Ω tester with max. 6 kV: 33 k Ω tester with max. 10 kV: 33 k Ω
Residual voltage test	The test (test step) is only finished, when output voltage decreased under 60 V

Function test GLP1-g

TEST VOLTAGE

Test voltage	12 to 250 V ac single-phase potential-free via an integrated isolating transformer @ 5A
Resolution	1 V
Voltage adjustment	adjustable in steps of 1 V
Voltage control	automatic electronic constant-voltage control with under-voltage and over-voltage control
Tolerance of setting	default value + 3 V
Voltage measurement	true r.m.s value
Measurement accuracy	±0.25% of the final value ±1 V
Output frequency	47 to 63 Hz, depending on mains supply

CURRENT

Test current	max. 5 A AC continuous current at 230 V supply voltage with 12 to 230 V test voltage max. 5 A reduced to 4,6 A continuous current AC at 230 V supply voltage with a proportional reduction to the test voltage from 230 V to 250 V max. 5 A AC continuous current at 110 V supply voltage and 110 V test voltage max. 5 A reduced to 2.2 A AC continuous current at 110 V supply voltage with a proportional reduction to the test voltage from 110 V to 250 V
Resolution	Range 1: 10 µA Range 2: 1 mA
Current measuring and evaluation	true r.m.s value
Measurement accuracy	current measuring range 1: 100 µA – 70 mA ±0.25 % of the final value ± 10 µA current measuring range 2: 70 mA – 5 A ±0.25 % of the final value ±1 mA integrated automatic switch over between the two current measuring ranges

POWER

Power	1150 VA maximum continuous power at 230 V @ 5 A 550 VA maximum continuous power at 110 V @ 5 A
Resolution	0,1 VA or 0,1 W
Power measurement and evaluation	VA or W
Measurement accuracy	power measuring range 1: ±0.5% of the final value 16 W ± 0,1 VA, respectively. ± 0,1 W power measuring range 2: ±0.5% of the final value 1150 W ± 1 VA, respectively ± 1 W integrated automatic switch over between the two power measuring ranges

EVALUATION

W, VA, $\cos\varphi$

Upper & lower limit ±tolerance in % of the default value	current: 0 to 5 A, measured values within the tolerance limits are OK power: 0 to 1150 W, measured values within the tolerance limits are OK power Factor: 0 to 1, measured values within the tolerance limits are OK
Undervoltage and overvoltage	If test voltage is smaller than -3 V of the default value, test result is NO GO If test voltage is higher than +3 V of the default value, test result is NO GO
Electronic short-circuit detection	continuously short-circuit proof with automatic electronic current limiting
Error signal	optic and acoustic

GENERAL

Starting delay timer	0, 0.5 s, 0.6 s, 0.7 s to 60 s in steps of 0.1 s (0 = off)
Test timer	0, 0.5 s, 0.6 s, 0.7 s to 1 h in steps of 0.1 s
Measurement technique of U & I	high-precision true r.m.s value measurement ($V_{TRMS} - I_{TRMS}$)
Residual voltage test	The test (test step) is only finished, when output voltage decreased under 60 V

Glossary

Adjustment	Correction of a measurement value, if the calibration showed too large a deviation.
Average value	The average value is calculated with direct voltages. It is the average of a number of test values.
Calibration	Regular annual inspection and documentation of the deviation compared to the reference value.
Condensation	Condensation means that moisture is produced at the inside or at the outside of the testing device. This must be avoided under all circumstances.
Current-interruption detector	Serves to check, whether the current is interrupted at the PE/GB-resistance test. In case of interruption and after the current is back, the test timer restarts automatically. This automatic process can be repeated up to three times.
DUT	Abbreviation for test object (Device Under Test)
DUT connection check	The DUT connection check serves to monitor, whether the DUT is correctly connected to the testing device.
GO	Short for "OK" (pass)
Limit (lower)	This is a value that must not be fallen below.
Limit (upper)	This is a value that must not be exceeded.
Measuring accuracy	The measuring accuracy refers to the measured value.
NO GO	Short for "not OK" (fail)
Peak value	The peak value of the sine wave is often relevant for the high-voltage test AC. Regardless of the positive or negative sign of the sine half wave, the indicated peak value is the highest measured.
RMS value	The RMS value is detected quickly and precisely following the exact mathematical definition. This is independent from the distortion of the sine signal. This is why SCHLEICH units always show the <i>true RMS value</i> .
Safety inputs	The device is released via two safety inputs. This function is defined as two-circuit.

Further information

Further information

For further information please have a look on our homepage www.schleich.com

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