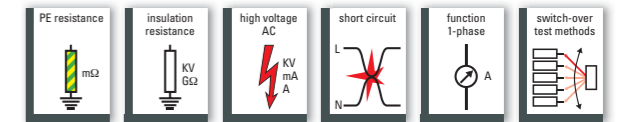
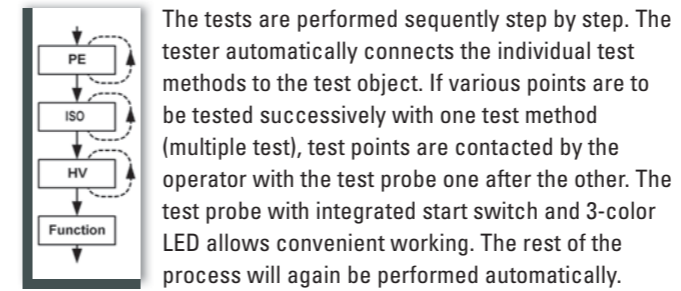


Safety and functional tester



- RS232
- PC
- LabView®
- SPS
- I/O
- Analog
- Print

Single or combination testers of the GLP1-e series are to test the electrical safety and function of electrical products according to defined standards. Due to the small number of adjustable parameters, GLP1-e testers are particularly suited for standardized test processes.



The tests are performed sequentially step by step. The tester automatically connects the individual test methods to the test object. If various points are to be tested successively with one test method (multiple test), test points are contacted by the operator with the test probe one after the other. The test probe with integrated start switch and 3-color LED allows convenient working. The rest of the process will again be performed automatically.

Because of the monitoring functions that can be activated, even untrained personnel can perform the tests safely and reliably.

The integrated RS232 interface allows to print the test results directly. You can use our Windows® software PrintCom to store and process the test results.

Alternatively, it allows a remote control of the device via a PC, a PLC or LabView®. For remote control, digital I/O channels are available, as well. Therefore, our testers can easily be integrated into automatic production lines.

Highlights

- ground-continuity test up to 30A AC in 4-wire configuration: indication of resistance or voltage drop
- automatic constant regulation of the test current
- automatic start when touching the test object with the test probe, optionally with start switch
- insulation-resistance test: indication of resistance or current
- high-voltage test with fixed voltage
- short-circuit test prior to the functional test
- functional test with current measurement and evaluation
- integrated isolating transformer
- acoustic error message and optical indication via signal lamps at the front panel
- digital I/O interface and analog actual-value outputs
- interface for printer, remote control or result transmission
- PrintCom software for storing and printing the test results
- self-test via blackbox according to VDE
- design: tabletop unit, 19" installation
- ideal pre-conditions for OEM applications
- integration into automatic lines with remote control via PLC or PC



PE tester



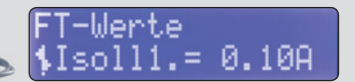
Luminaire testing: PE | ISO | HV | function



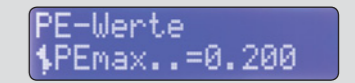
Testing device with up to 1500V DC



Display at the end of a test



Input of a test parameter



Input of a test parameter



Luminaire testing: PE | ISO | function



Luminaire testing: PE | ISO | HV | function



Testing an electric grill: PE | ISO | function

Possible combinations of test methods in a device

PE resistance	insulation resistance	high voltage AC	short circuit	function 1-phase
•				
	•			
	•	•		
	•	•	•	
	•	•	•	•

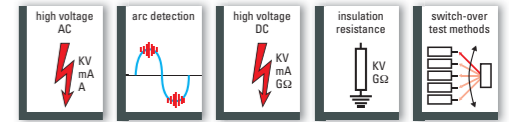
Refer to:

Windows® software PrintCom	58
HV pistols and warning lamps	68
Mains-connection adapters	70
Contacting devices for leads	72
Special contacting devices	74
Test covers	76
Rolling tables	78
Calibration and black boxes	82
Test methods	94



GLP1-e HV

High-voltage tester AC/DC up to 50KV



- RS232
- PC
- LabView®
- SPS
- I/O
- Analog
- Print



directly. You can use our Windows® software PrintCom to store and process the test results directly on the PC.

Alternatively, it allows to remote control the device via a PC, a PLC or LabView®. For remote control, digital I/O channels are available, as well. Thus, an integration of our testers into automatic production lines is no problem.



Highlights

- AC high-voltage testers up to 30KV
- DC high-voltage testers up to 6KV with the lowest residual ripple
- 3 modes: manual, automatic with target time and burning
- high-voltage check / cable-break detection (4-wire configuration)
- automatic voltage adjustment with ramp
- acoustic error message and optical indication via signal lamps at the front panel
- interface for printer, remote control or result transmission
- PrintCom software for storing and printing the test results
- digital I/O interface, two-hand start and analog actual-value outputs
- designs: table-top unit, mobile caddy, 19" installation
- ideal pre-conditions for OEM applications
- integration into automatic lines with remote control via PLC or PC

GLP1-e HV high-voltage testing devices can test the insulation capability and the electric strength (clearance and leakage paths) at electric modules and components.

They are ideal for fast and uncomplicated manual testing within the production process. Without a separate test program, the testers allow manual testing via test pistols, automatic testing (e.g. with programmed time target), various monitoring functions or the localization of isolation faults ("burning").

Our testing devices offer manually or automatically adjustable voltages. Thus, the testers deliver not only a test voltage for routine tests according to standards, but also a sufficiently high test voltage for type tests and material tests.

The tests are often performed with two safety test pistols. In order to meet your requirements best, our product range comprises a great variety of test pistols. For an application in automatic production lines or test systems, the necessary high-voltage cables and contactings are also available.

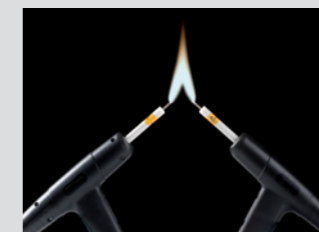
In addition to single testers, our product range offers combination testers with an internal automatic switch-over between the different test methods, to perform more complex testing tasks. The integrated RS232 interface allows to print the test results



High-voltage test under a test cover



Testing with pistols



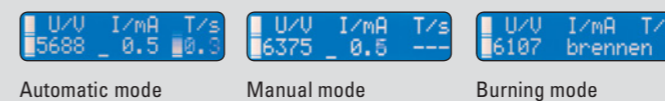
Burning



Mobile caddy

Single tester AC	3KV	6KV	12KV	15KV	30KV	50KV
high-voltage DC	3KV	6KV	12KV	15KV	30KV	50KV
current	100mA	100mA	50mA	50mA	30mA	10mA
Single tester DC	1KV	2KV	6KV	6KV	6KV	6KV
high-voltage AC	1KV	2KV	6KV	6KV	6KV	6KV
current	1mA	1mA	3mA	5mA	10mA	20mA
insulation resistance	•	•	•	•	•	•
Combination tester	6KV AC	3KV AC	2.5KV DC			
high-voltage	6KV AC	3KV AC	2.5KV DC			
current	100mA	100mA	1mA			
insulation resistance	•	•	•			
PE resistance	-	•	•			
function-test	-	•	-			

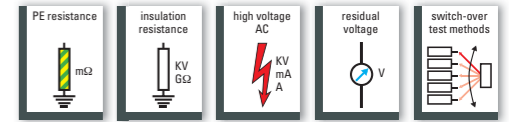
• Standard | ◊ Option | - not available



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Article Number

	GLP1-e 60204 V1 401854	GLP1-e 60204 V2 401855
high-voltage test AC 500VA	•	•
maximum high voltage	6000V AC	3000V AC
high voltage potential-free	•	–
safety high-voltage test pistols	2	1
ground-continuity test 10A	•	•
insulation resistance test 500Vdc (stepless100 - 1000Vdc)	•	•
residual-voltage test	◇	◇
V1 > PE/IR ground-connection lead in 4-wire configuration	5 m	–
V1 > PE/IR test probe with switch-over and 3-color LED (green/yellow/red)	10 m	–
V2 > PE/IR/HV ground-connection lead in 4-wire configuration	–	10 m
V2 > PE/IR/HV test pistols with integrated push-button	–	1
V2 > PE/IR/HV test pistol length of connection lead	–	6 m
V2 > PE/IR/HV control panel with 3-color LED (green/yellow/red)	–	•
warning lamp	•	•
foot switch	•	–

• Standard | ◇ Option | – not available



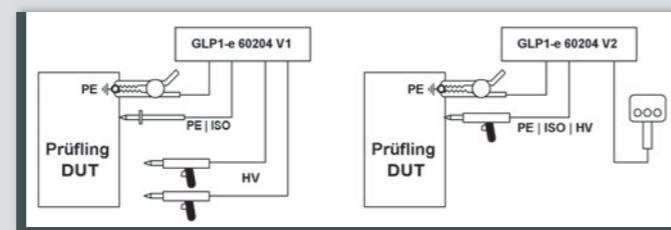
Mobile caddy

Highlights

- ground-continuity test with 10A AC in 4-wire configuration: indication of resistance or voltage drop
- insulation-resistance test: indication of resistance or current
- high-voltage test with manual voltage adjustment
- 3 modes: manual, automatic with time target and burning
- optional residual-voltage test
- acoustic error message and optical indication via signal lamps at the front panel
- integrated result storage for later data transmission
- interface for printer, remote control or result transmission
- PrintCom software for storing and printing the test results on a PC
- digital I/O interface and analog actual-value outputs
- designs: table-top unit, mobile caddy, 19" installation
- ideal pre-conditions for OEM applications
- self-test via black-box according to VDE

GLP1-e-60204 testers perform electric safety tests at machines and devices according to the Machine Guideline (EN60204/VDE0113).

They are ideal for fast and easy testing in factories and on site. It is possible to perform ground-continuity tests, insulation-resistance tests, high-voltage tests and residual-voltage tests. Two models are available – differing only in the contact method.



With Model V1, the ground-continuity tests and the insulation-resistance tests with a test probe with an integrated operating unit are performed first. The high-voltage test with two safety test pistols follows. The test pistols can be delivered with or without integrated start switch and with varying cable lengths.

With model V2, the test object is contacted at ground (central PE-point). All three tests can be performed against this ground point with the same test pistol. By activating the selection switches

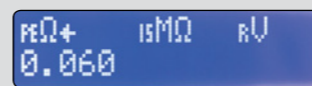


on the control panel, test methods can be changed. To ensure the operator's safety, it is necessary that the high-voltage switch is activated permanently during the high-voltage test. To start the test, the test probe needs to be pushed against the test object.

The integrated RS232 interface allows to print the test results directly. You can use our Windows® software PrintCom to store and process the test results directly on the PC.



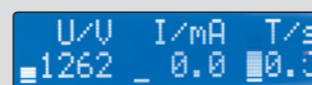
EN60204 test at a service cabinet



PE resistance



Insulation resistance



High voltage

Possible combinations of test methods

	high voltage AC KV mA A	PE resistance mΩ	insulation resistance KV GΩ	residual voltage V
Basic	•	•	•	–
Full	•	•	•	•

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