GLP2-ce | Basic Model

RS232
CAN
Ethernet
USB
LabView®
Profibus
PC
PLC
I/O
Analog
Print

Highlights

- tester for all safety tests
- automatic switchover between high- and low-voltage tests
- one- and three-phase functional test with apparent and active power measurement
- test methods can be combined according to the SCHLEICH-MODULAR-CONCEPT
- single test with a large display of the measuring values
- pictures can be displayed for a visual test
- central picture storage in a network
- additional analog inputs and outputs
- additional digital inputs and outputs
- freely programmable additional processes for digital inputs and outputs
- high-resolution color display with a resolution of 800 x 480 pixel and touch functionality
- integrated 1GB memory for test program data and 3GB for test results
- data storage on USB-flash-drive
- already integrated statistical evaluation
- thermo transfer print for labels
- connection of several different label printers is possible
- central storage of label layouts in a network
- connection for USB-mouse, USB-keyboard and bar code reader
- network-compatible via Ethernet LAN or WLAN
- network with additional testers and central storage
- optimum OEM preconditions
- remote maintenance and remote calibration compatible
- can be remote calibrated and remote controlled

Based on the GLP2-e testers the GLP2-ce class with its Windows CE® operating system offers the best opportunities for the use as single and combination testers. Despite consequently improved measuring and control technology the GLP2-ce testers still have their accustomed compact and handy structure.

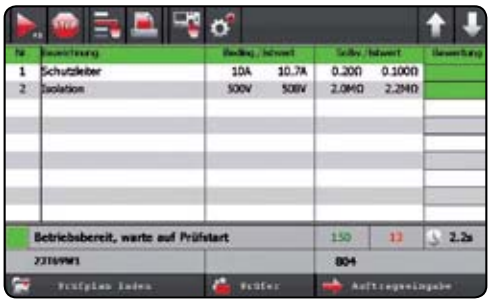
GLP2-ce testers include an integrated automatic switchover between all low- and high-voltage tests. Thus, the test object can be automatically tested in one test process without any re-clamping of the test connections. They can be ideally used in the series production, regardless if test results are to be documented or not.

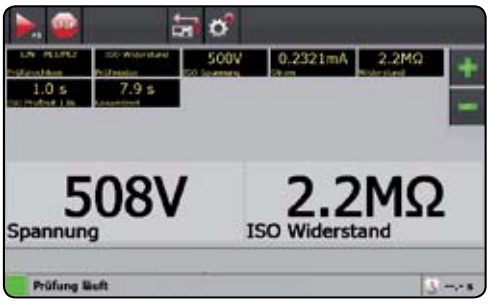
The testers can of course also be used in laboratories for type and material tests.

The integrated 4GB storage of the GLP2-ce testers is also able to save countless test results beside several thousand test programs. This guarantees you to save test results of several years within the tester. You can of course save the test results also on another PC via an USB flash drive or the integrated network interface.

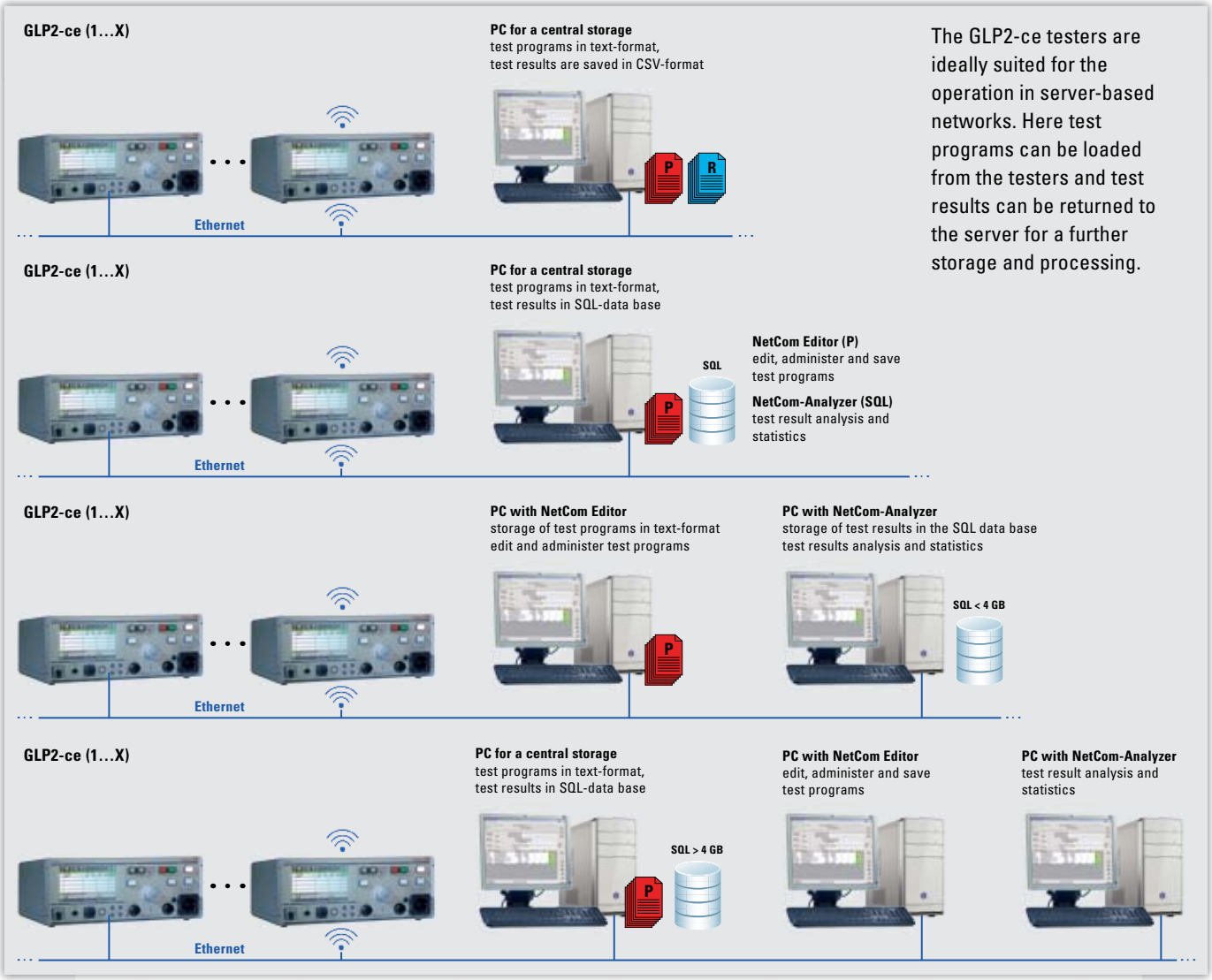
In order to furnish your products with type plates directly after the test, the GLP2-ce is able to trigger a thermo transfer printer.

For general technical data of the testers as well as of standard single and combination testers please look on page 144





Owing to innovative operation via the integrated high-resolution TFT display with touch-function that also allows the entry of numbers and characters the GLP2-ce testers belong to the user-friendliest all-rounder testers in the market. The testers can of course also be controlled via an external standard PC keyboard, a mouse and/or a barcode scanner.



The GLP2-ce testers are ideally suited for the operation in server-based networks. Here test programs can be loaded from the testers and test results can be returned to the server for a further storage and processing.

GLP2-ce HV | High-Voltage Testers 1KV - 100KV

RS232
CAN
Ethernet
USB
LabView®
Profibus
PC
PLC
I/O
Analog
Print

Highlights

- high-voltage testers AC
- high-voltage testers AC and DC
- high-voltage testers DC
- extremely low residual ripple at the DC high-voltage
- insulation resistances at DC high-voltage up to 10TΩ
- high-voltage with up / down ramp
- high-voltage with voltage cycle profile
- step voltage measurement
- fast switch-off at disruptive breakdown
- display of the measuring values in a graphic
- three HV-modes: manual, automatic with time lapse and burning
- voltage check and cable break monitoring (4-wire-technology) respectively
- minimum current monitoring
- voltage-free contacting with special test pistols
- zero voltage switch-on to protect the test object
- manual high-voltage setting via the rotary button
- automatic high-voltage setting via the actuator
- automatic fully electronic high-voltage setting
- electronic high-voltage control with very fast ramps
- long-term measurement for hours, days and weeks
- storage of the single long-term values
- high-voltage matrix to switch over between different test points
- matrix from 1KV to 50KV AC
- two-circuit safety inputs, two-hand start
- safety circuits with restraint-guided safety relay
- VDE 0104 compliant start-up sequence

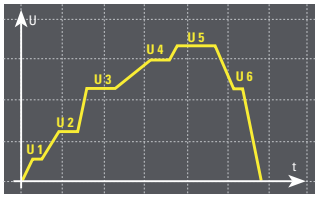
The GLP2-ce series offers the widest range of high-voltage testers that is currently in the market, regardless whether AC, AC with rectifier, DC with high-tensile output power or AC plus DC are to be combined in one tester.

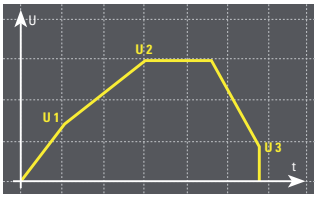
The high-voltage testers are designed for testing the electrical insulating property and electric strength (clearance and leakage paths) of all kinds of electrical parts and components.

The testers are perfectly suited for fast and uncomplicated tests in production and laboratories. Tests can be performed either manually by means of safety pistols or automatically.

The testers can be operated in 3 modes.

- manual test without time lapse. A switch-off only occurs in case of overcurrent, which for example is generated by a disruptive breakdown.
- test with programmed time lapses and additional different monitoring functions
- location of insulating failures due to “burning”





high-voltage test with voltage profiles

There are three types of high-voltage settings

- manual voltage setting
  The manual voltage is set with the rotary button at the front. This rotary button directly affects the adjusting transformer within the tester. In the automatic mode the voltage is set manually to the requested value.

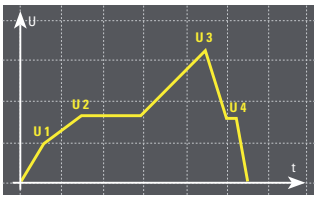
- automatic voltage setting with actuator
  In the manual mode the voltage is set with the rotary button at the front. The rotary button affects an electronic which adjusts the adjusting transformer via an actuator. In the automatic mode the tester automatically sets the voltage to the requested value or automatically generates a ramp profile independently from the rotary button.

- fully electronic voltage source
  In the manual mode the voltage is set with the rotary button at the front. The rotary button directly sets the electronic voltage source. In the automatic mode the tester automatically sets the voltage to the requested value or automatically generates a ramp profile independently from the rotary button.

Depending on the ordered tester model, one of the three voltage settings is installed.

Compliant to your application, we offer several different test pistols. For the tester's use in laboratories, automatic production lines or test setups we also offer the matching high-voltage cables and contactings, of course.

The safest way to perform a high-voltage test is in a test cage. We offer test cages for different tasks in different designs and sizes. In case our standard cages do not cover your requirement we are pleased to design a test cage especially for you.



For general technical data of the testers as well as of standard single and combination testers please look on page 144

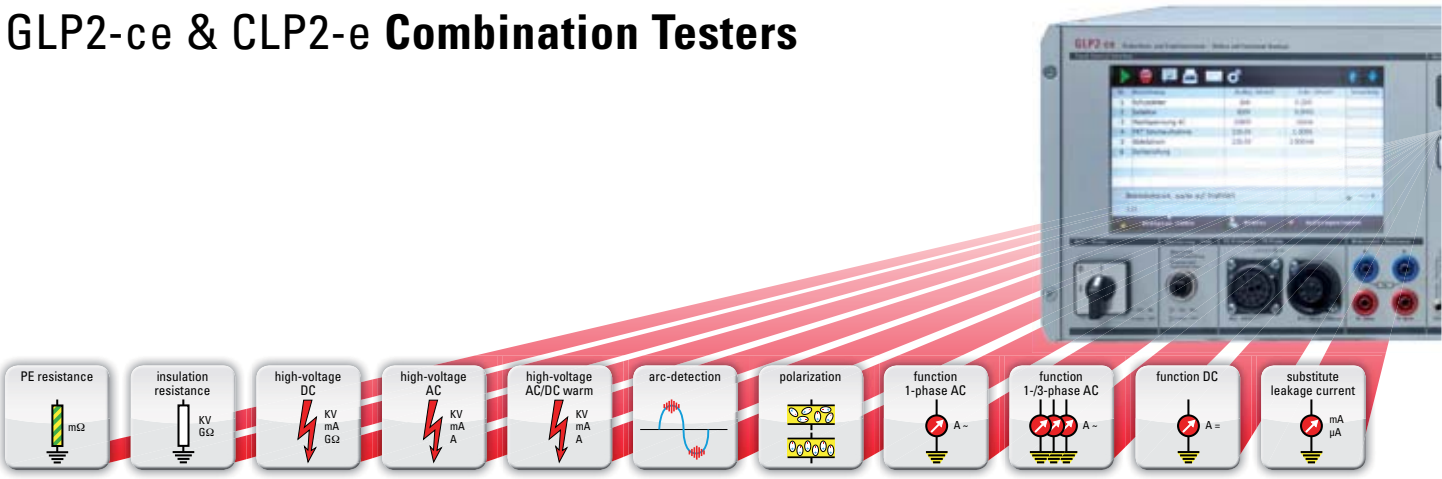
GLP2-e HV with 20KV AC

GLP2-e HV with 50KV AC

≤ 100KV

GLP2-e HV with 100KV AC

SCHLEICH-MODULAR-CONCEPT
GLP2-ce & CLP2-e **Combination Testers**



Configure your tester on your own – the SCHLEICH-MODULAR-CONCEPT makes this possible

The testers of the GLP2-Class are based on the basic models GLP2-ce and GLP2-e. Both basic models include the microcomputer control, the measuring technology, the graphic-LCD display with touch operation, intuitional operating and measuring software, the data bases and several interfaces.

Based on the SCHLEICH-MODULAR-CONCEPT the GLP2-testers offer almost unlimited possibilities to combine and integrate different safety and functional test methods. You can select the test method, necessary for your test task out of a large pool of test possibilities.

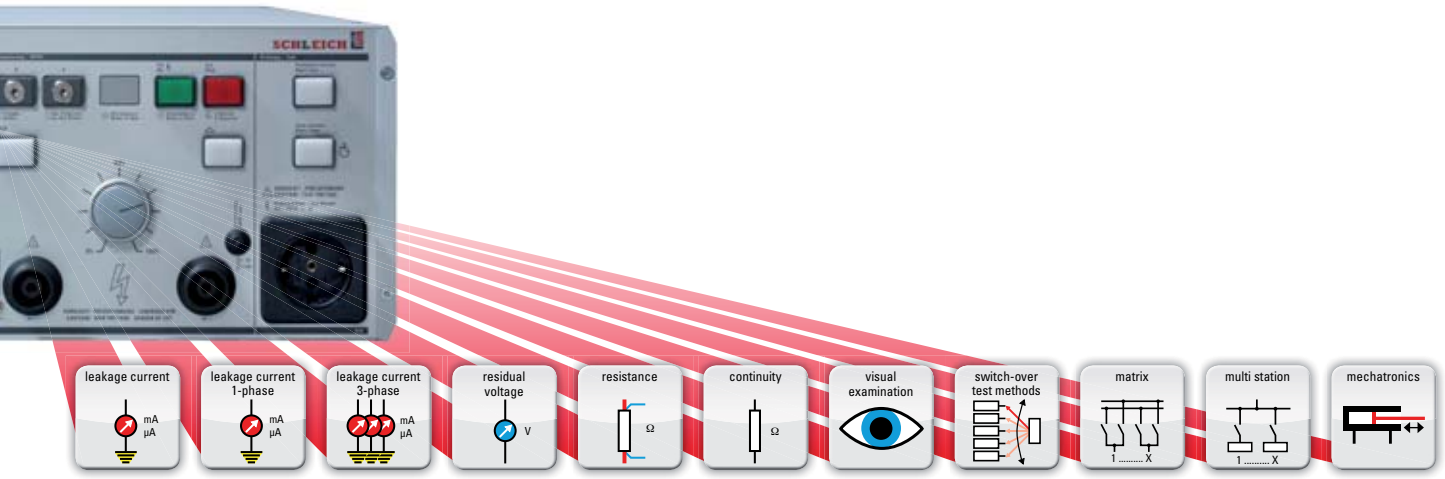
S-M-C
SCHLEICH MODULAR CONCEPT

Whether one or several test methods – you determine the configuration. Your GLP2 can be configured as high-voltage and PE resistance tester. For a more complex test task you might require a combination of all test methods. The SCHLEICH-MODULAR-CONCEPT of the GLP2-Class allows configuring the tester that corresponds to all your tasks. This is not done by integrating several single testers into one very big test rack but by integrating all tests into one compact modular enclosure concept. The enclosure's size is related to the design and size of the different tests.

This impressive flexibility gives you a considerable functional and economic advantage. Each tester comprises the experience of thousands of installations. At SCHLEICH this experience is realized consequently, with passion and without any compromises for you.

This is "customer based technology".

For details regarding the individual test methods please look on page 157 and at our website www.schleich.com.



PE resistance

test current ranges	1…100A AC or DC
restistance ranges	1mΩ…10Ω
four-wire-technology	yes

Insulation resistance

test voltage ranges	500V…50000V
test current ranges	1mA…500mA
resistance ranges	100KΩ…1TΩ
polarization index	available

High-voltage AC

test voltage ranges	3000V…100000V
test current ranges	3mA…10A
ARC-detection	available
high-voltage & function at the same time	available

High-voltage DC

test voltage ranges	500V…50000V
test current ranges	1mA…500mA
resistance ranges	100KΩ…1TΩ
polarization index	available
high-voltage & function at the same time	available

Function 1-phase | 3-phase

test voltage ranges	0…300V / 0…750V
test current ranges	1mA…100A
total current, active current, cosφ	yes
apparent & effective power measurement	yes

Function DC

test voltage ranges	0…400V
test current ranges	1mA…100A

Leakage current 1-phase | 3-phase

test current ranges	1µA…30mA
test voltage ranges	0…300V / 0…750V

Resistance measurement

restistance ranges	<1µΩ…100KΩ
test current ranges	2A…200A
four-wire-technology	yes
temperature compensation	available

Continuity | short-circuit

restistance ranges	1Ω…500Ω

Analog measurement

test voltage ranges	50mV…50V AC – auto range
channels	1…10 – depending on the model

Visual test

visual test with confirmation	standard
number of test steps	arbitrary
with picture	yes – only GLP2-ce

Mechatronics

digital inputs	4, 32, 64, 96, 128 – depending on the model
digital outputs	32, 64, 96, 128 – depending on the model

The GLP2-Class

Enclosure Versions

The testers of the GLP2-Class offer several test possibilities in only one compact enclosure. The combination of the test methods according to the SCHLEICH-MODULAR-CONCEPT requires a modular enclosure concept.

Your applications can be installed in a compact tabletop unit, in a 19"-built-in unit or in a compact cabinet – according to your requirements. To install the test technology professionally and safely we use especially for us tailor-made enclosure components of well-known German manufacturers as well as components of our own production. On this basis the modular enclosure concept guarantees a favorably-priced and professional package solution.

The modularity can be found not only in the enclosure but also in the arrangement of the tester's connections. The measuring connections can be installed either at the front or at the rear panel.

Our target is to realize the most economic and most flexible solution for your task and effective workflow.

GLP2-standard 4HU

enclosure 19"	4HU
height	178 mm
length	430 mm
length (alternative)	530 mm
width	448 mm
integrable in a rack	optional

This solid Aluminum enclosure is the basis for all single and combination testers. It is often used for testers with a few test methods and low currents. Fixing flanges can be installed at the sides of the enclosure as an option to be able to install it in a 19"-cabinet. These enclosures can be ideally put on test covers or rolling tables.

GLP2 8HU

enclosure 19"	8HU
height	355 mm
length	430 mm
length (alternative)	530 mm
width	448 mm
integrable in a rack	optional

Typical enclosure for combination testers with several test methods and increased test currents.

GLP2 12HU

enclosure 19"	12HU
height	535 mm
length	430 mm
length (alternative)	530 mm
width	448 mm
integrable in a rack	optional

Typical enclosure for combination testers with several test methods, high test currents or integrated high-voltage matrices.

GLP2-tabletop enclosure 12HU

enclosure 19"	12HU
height	635 mm
length	600 mm
width	550 mm
integrable in a rack	no

This solid Aluminum 19" industrial rack is the basis for all single and combination testers with high test currents and many switchovers. This enclosure version is used when large and heavy transformations are installed in the tester. At the sides there are ideally positioned recessed grips.

GLP2 rolling container 16HU

enclosure 19"	16HU
height	845 mm
length	600 mm
length (alternative)	780 mm
width	550 mm
integrable in a rack	no
rollers	yes

This enclosure version is used when exceptionally large and heavy transformations are installed in the tester. Typically it stands on the floor. To achieve optimum mobility it is equipped with solid rollers.

GLP2 rolling container 25HU

enclosure 19"	25HU
height	1170 mm
length	780 mm
width	550 mm
integrable in a rack	no
rollers	yes

This enclosure version is used for high-performance high-voltage testers. It is designed for exceptionally large and heavy transformations. To achieve optimum mobility it is equipped with solid rollers. The GLP2's display is in a well-readable operating position.

GLP2 rolling container 34HU

enclosure 19"	34HU
height	1570 mm
length	780 mm
width	550 mm
integrable in a rack	no
rollers	yes

This enclosure version is used for high-performance high-voltage testers. It is designed for extremely large and heavy transformations. To achieve optimum mobility it is equipped with solid heavy-duty rollers. The GLP2's display is in a well-readable operating position.