

SURGE TEST GENERATOR

PG 10 - 1520

Surge current:

2 * 10 kA

8 / 20 μ s

**designed for testing
two-gap over-voltage protectors**

**safety test cover at the top
of the equipment (Opt. 1)**

MC control unit



The SURGE TEST GENERATOR PG 10-1520 has been designed for testing two-gap over-voltage protectors. It delivers surge current pulses synchronous at two impulse current outputs, waveform 8/20 μ s and peak value adjustable 0.2 - 10 kA for each output.

Output terminals are located at the top of the generator and are protected by an isolating cover, see option 1. The safety test cover has a limit switch, which is connected to interlock loop of the generator. Interrupting the safety interlock loop causes deenergization of the high-voltage pulse generator and discharging of the energy storage capacitor.

Test devices are connected to a plug-in test adapter.

PG 10-1520 features a microprocessor controlled user interface and display unit for ease of use. The microprocessor allows the user to execute either standard test routines, or a 'user defined' test sequence. The test parameters, which are shown on the built in display, are easily adjusted by means of the rotary encoder. A standard parallel interface provides the ability to print a summary of the test parameters whilst testing is being carried out.

Moreover, all generator functions may be computer controlled via the isolated optical interface. The software program PG-TEST allows full remote control of the test generator and documentation and evaluation of test results.

Technical specification:
PG 10-1520
Mainframe:

Microprocessor controlled LCD module	8*40 characters
Parallel printer interface for on-line documentation	25-way 'D' connector
Optical-interface for remote control of the generator	built-in
External Trigger input	10 V at 1 k Ω
External Trigger output	10 V at 1 k Ω
Connector for external safety interlock loop and external red and green warning lamps acc. to VDE 0104	24 V = 230 V, 60W
Mains power	230 V, 50/60 Hz
Dimensions: desk top case W * H * D	556*470*600 mm ³
Weight	65 kg

Surge current pulse generator:

Peak value of charging voltage, adjustable	0 - 10 000 V, \pm 2%
Short circuit test current, by paralleling both outputs a test current of up to 20 kA can be generated pulse current amplitude is controlled by preset of charging voltage	2 * 0.1 - 10 kA \pm 10 %
Wave form acc. to VDE 0433, IEC 60	8 / 20 μ s \pm 20%
Polarity of the output current, selectable	pos / neg
Max. stored energy	1500 J
Charging time	< 10 sec
High-current output:	3 high-current terminals on the top of the equipment
Monitor output for impulse output current	20V \equiv 20 kA \pm 5%

Safety test cover:

mounted on the top of the equipment, safety interlock loop connected to the limit switch, red and green warning lamps installed	
Dimensions: W * H * D	440*180*300 mm ³

OPTION 2: PG-TEST software test package, for the external control of the device includes 5 m long fibre optic cable and PC Interface.