

High-Voltage Impulse Generator

PG 20 - 4000

Lightning surge:

Pulse Voltage:
20 kV, 10 / 700 μ s

Pulse Current:
500 A, 5/310 μ s

acc. to CCITT/ITU-T etc.



The high-voltage impulse generator PG 20-4000 generates standard impulse voltages with waveform 10/700 μ s. Output voltage is adjustable between 1 kV and 20 kV. The polarity of the output voltage is selectable, positive or negative.

It is designed for dielectric testing of components and systems acc. to CCITT K17/K20/K22, ITU-T/K44, IEC 61000-4-5, EN 61000-4-5, VDE 0847. One high-voltage output with a series resistor of 25 Ω for direct testing of surge protection devices is available. The short circuit current with the waveform 5/310 μ s can be adjusted up to 500 A by selection of charging voltage.

Output terminals are located on the top of the generator and are protected by an isolating cover. 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.

Optionally the safety test cover can be delivered as a stand-alone unit, see picture above.

PG 20-4000 features a microprocessor controlled user interface and display unit for ease of use. The microprocessor allows the user to either execute 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.

All generator functions may be remotely controlled by a computer via optical link.

