

HIGH-VOLTAGE DC TEST SET

HTS 20-5 / 20-10

DC Isolation test:
0.2 up to 20 kV_{rms}, 5 mA / 10 mA

Rate of rise, adjustable:
100 V/s - 10 kV/s.

Test time, adjustable:
1 sec - 1000 sec.

Limit current, adjustable,
Error message on over current



High-Voltage DC Test Sets HTS 20-5 / HTS 20-10 are designed for testing dc dielectric strength of components, insulations, air- and surface flash-over gaps acc. to VDE 0110, VDE 0411, VDE 0420, IEC 6 etc. The test voltage can be adjusted from 0.2 kV up to 20 kV.

The test voltage rises like a ramp from zero to the selected test voltage. The rate of rise can be adjusted from 100 V/sec up to 10000 V/sec. Then the test voltage remains at the selected value for the test time, which can be adjusted from 1 – 1000 sec. The actual test voltage is displayed. The test can be repeated several times.

If the output current exceeds the limit value, which can be adjusted, the high-voltage power supply is switched off and an error message is generated: sound signal and display. If an over-current occurs during rise of voltage, the spark-over voltage is displayed.

The HV output terminals are located beyond a dielectric safety test cover with safety interlock. The transparent test cabinet prevents accidental contact with live parts of the test object and allows observation of the test object during testing.

The generator features a microprocessor controlled user interface and display for ease of use. The microprocessor allows the user to execute 'user defined' test sequences. The test parameters, Test Voltage, Limit Current, Rate of Rise, Test Time and Number of Tests, 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..

Technical specification	HTS 20-5 / -10
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
Connectors for external safety interlock loop (not with Opt. 1)	24 V =
and external red and green warning lamps acc. to VDE 0104	230 V, 60 W
Mains power	230 V, 50/60 Hz
Dimensions:	450*180*425 mm ³
Weight	25 kg
High-Voltage Test Set:	
Test voltage (Controlled by 8-bit digital /analogue Converter)	0.2 - 20 kV
Measurement of test- /spark-over voltage, accuracy	8 bit \pm 2digit
Voltage rate of rise, adjustable	100 V/sec - 10 kV/sec
Test time, adjustable	1 - 1000 sec
Limit current, adjustable	0.5 – 5 mA / 1 - 10 mA
Number of repetitions, adjustable	1 - 1000
HV output terminals, on the top of the equipment	2 banana plugs, 4 mm \varnothing
Safety test cover:	
Mounted on the top of the equipment, supplied with limit switch, connected to safety interlock loop of the unit,	
External Warning lamps	built-in
Dimensions: W * H * D, ca.	400 * 150 * 250 mm ³
Option:	
Safety test: Version without safety test	
High voltage output to coaxial cable, 2 m long	
Connections for safety circuit and external warning lamps	on the back side