

PGK 110/5 HB

BAUR AC/DC HV test set



The figure is illustrative.

Voltage test with DC voltage or mains frequency

- Operation as DC or AC testing device
- Polarity change of DC voltage possible
- Robust and durable

The PGK 110/5 HB AC/DC HV test set is used to generate continuously adjustable test voltages:

- DC voltages with positive or negative polarity
- AC voltages at mains frequency

The test set consists of an operating unit and an HV unit. The operating unit contains all operating and display elements and allows the HV unit to be controlled from a safe distance. Depending upon the operating mode, a rectifier or resistance rod is used in the HV unit. The polarity of the test DC voltage can be reversed by rotating the rectifier rod in the HV unit.

All devices in the PGK HB series are short-circuit proof and have a current-compensated voltage measuring function. A discharge and earth rod suitable for the device in question is supplied for the discharging of capacitive test objects in DC voltage mode.

Functions

- On-site testing of paper-insulated mass-impregnated cables according to:
 - CENELEC HD 620/621 (VDE DIN 0276-620/621)
 - IEEE 400-2012
 - IEC 60060-3
- Voltage test on electrical equipment according to:
 - IEEE 62.2
 - IEEE 95
- Cable sheath testing according to:
 - IEC 60502 / IEC 60229
 - CENELEC HD 620/621 (VDE DIN 0276-620/621)

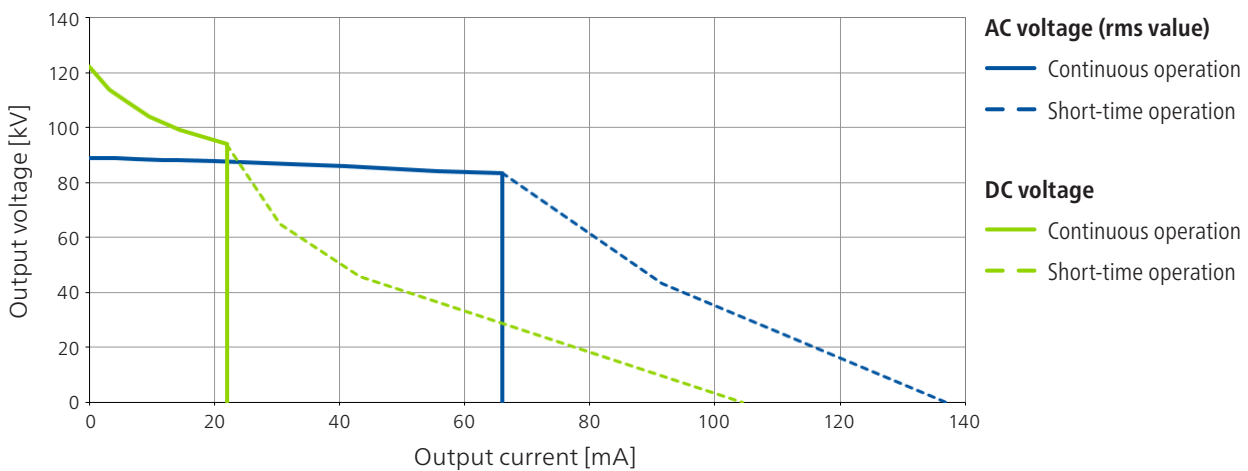
Features

- Test voltages up to AC 80 kV_{rms} or DC ±110 kV
- Oil-insulated maintenance-free high voltage transformer
- Continuously adjustable output voltage
- Safety control unit according to EN 50191
- Voltmeter with 2 measurement ranges
- Ammeter with 3 measurement ranges
- Thermal overcurrent switch-off
- Robust two-part structure

Technical data

Testing		General	
Output voltage	<ul style="list-style-type: none"> ▪ AC 0 – 80 kV_{rms} ▪ DC 0 to ±110 kV 	Power supply	200 – 260 V, 50/60 Hz
Output current (continuous)	<ul style="list-style-type: none"> ▪ AC 66 mA_{rms} ▪ DC ±22 mA 	Option	100 – 130 V, 50/60 Hz (with external auto transformer)
Short-circuit current	<ul style="list-style-type: none"> ▪ AC 137 mA_{rms} ▪ DC ±104 mA 	Power consumption	5,750 VA
Accuracy		In short-circuit	11,700 VA
Voltmeter (kV)	2.5%	Ambient temperature (operational)	0°C to +45°C
Ammeter (mA)	2.5%	Storage temperature	-20°C to +60°C
		Relative humidity	Non-condensing
		Dimensions	
		Operating unit (W x H x D)	Approx. 506 x 572 x 390 mm, (19", 12 RU)
		HV unit (Height / Diameter)	Approx. 1,320 mm / Ø approx. 640 mm
		Weight	
		Operating unit	Approx. 51 kg
		HV unit	Approx. 162 kg
		Safety and EMC	CE-compliant in accordance with Low Voltage Directive (2014/35/EU), EMC Directive (2014/30/EU), EN 60068-2-ff Environmental testing

Load diagram



Standard delivery

- PGK 110/5 HB AC/DC HV test set
- GDR 120-750 discharge and earth rod
- Connection cable, 5 m, for connecting the HV unit to the operating unit
- HV connection cable, 2.5 m, with connection clip
- Rectifier rod for DC voltage operation, screwed into the HV unit
- Resistance rod for AC voltage operation
- Wrench for changing the rectifier and resistance rod
- Earth cable, 3 m, with earth terminal
- Mains supply cord, 2.5 m
- User manual

Options

- GDR 120-750 discharge and earth rod
- Trolley for HV part
- Hinged stand for 19" devices, height 12 RU (553 mm)
- EM 110 automatic discharge unit; 45 kJ
- Transport case for operating unit
Dimensions (W x H x D) approx. 596 x 616 x 596 mm
- Transport case for HV unit
Dimensions (W x H x D) approx. 730 x 1,545 x 730 mm
- External emergency off unit with signal lamps,
incl. connection cable, 25 m, on hand drum
- External emergency off unit with signal lamps,
incl. connection cable, 50 m, on hand drum
- External auto transformer 110/230 V; 6.0 kVA
- Rectifier rod
- Resistance rod

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