

PGK 110 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 of the DC voltage can easily be reversed
- Robust and durable

The BAUR PGK 110 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:
 - VDE DIN 0276-620/621 (CENELEC HD 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
 - VDE DIN 0276-620/621 (CENELEC HD 620/621)

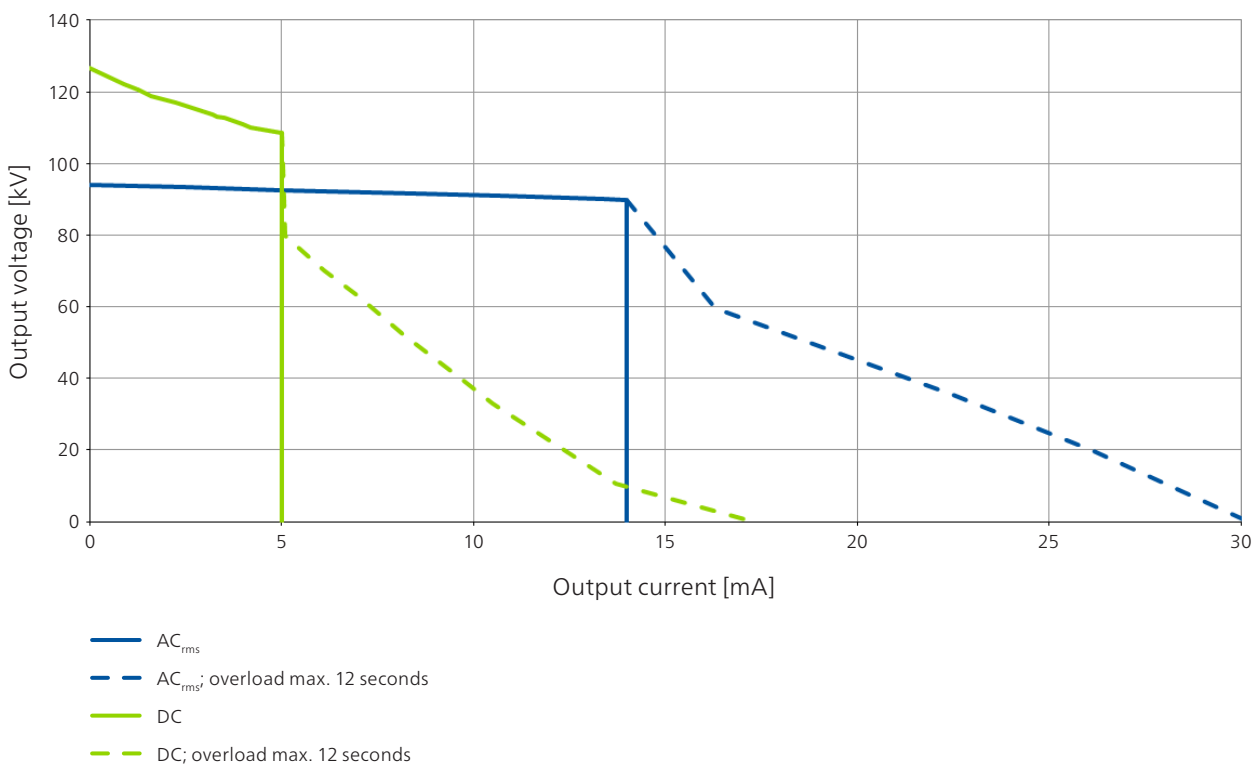
Features

- 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 14 mA_{rms} ▪ DC ±5 mA | Option | 100 – 130 V, 50/60 Hz (with external auto transformer) |
| Short-circuit current | <ul style="list-style-type: none"> ▪ AC 30 mA_{rms} ▪ DC ±17 mA | Power consumption | 1 380 VA |
| Accuracy | | In short-circuit | 2 650 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 258 x 319 mm, (19", 5 RU) |
| | | HV unit (Height / Diameter) | Approx. 1 126 mm / Ø ca. 473 mm |
| | | Weight | |
| | | Operating unit | Approx. 17 kg |
| | | HV unit | Approx. 75 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

- BAUR PGK 110 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 5 RU (222 mm)
- EM 110 automatic discharge unit; 45 kJ
- Transport case for operating unit
Dimensions (W x H x D) approx. 515 x 430 x 255 mm
- Transport case for HV unit
Dimensions (W x H x D) approx. 530 x 1345 x 530 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; 1.5 kVA
- Rectifier rod
- Resistance rod