

PGK 25

BAUR DC HV tester



The figure is illustrative.

Compact, mobile and versatile

- Compact device for DC voltage testing with negative polarity
- Continuously adjustable output voltage
- Perfect for mobile use

The portable PGK 25 DC HV tester is used for DC voltage testing up to 25 kV of paper-insulated mass-impregnated cables and electrical equipment in the medium-voltage network.

The PGK 25 is characterised by its low weight of only 16.5 kg, by its easy operation and by its solid construction for onsite use. The device can be operated via the mains, an integrated rechargeable battery or an external power supply and is therefore suitable for universal use.

An external curve tracer can be connected to the PGK 25 to record the measured current in relation to time. The timer permits test time pre-selections of 1 to 30 minutes. After the end of the test time, the integrated discharge unit is automatically switched off. The discharging resistance is designed for a max. discharge energy of 5000 J.

Functions

- On-site testing of paper-insulated mass-impregnated cables according to:
 - 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)

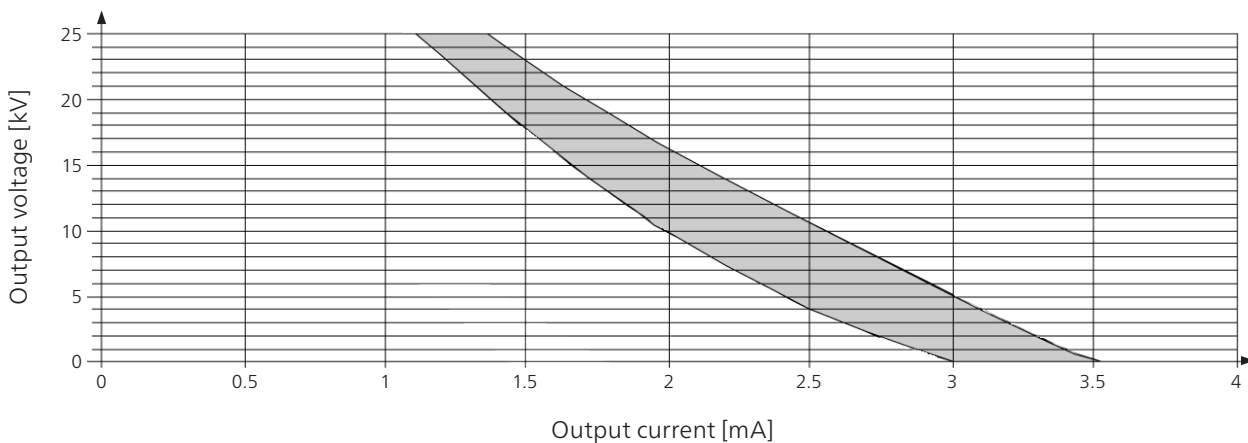
Features

- Two continuously adjustable voltage ranges:
 - DC 0 – 5 kV
 - DC 0 – 25 kV
- Integrated timer for setting the test time
- Ammeter with 5 measurement ranges from 1 μ A to 10 mA
- Power supply:
 - Mains voltage
 - Integrated 12V rechargeable battery
 - External 12 V power supply, e.g. vehicle battery
- Connection for external curve tracer for recording the test current
- Voltage measurement directly at the HV output
- Automatic switch off at the end of the test and triggering of the discharge unit for maximum safety
- Switch-on interlock of high voltage against unintended operation

Technical data

Testing		General	
DC voltage (negative)	<ul style="list-style-type: none"> ▪ 0 – 5 kV ▪ 0 – 25 kV 	Power supply	
Output current (negative)	1 mA	Mains voltage	110/120 V, 220/230 V, 240 V, 50/60 Hz
Short-circuit current (negative)	3 mA	Integrated rechargeable battery	Lead-acid battery DC 12 V, 6.5 Ah (maintenance free)
Voltage measuring range		External supply	DC 12 V
	Range I 0 – 5 kV	Power consumption	110 VA
	Range II 0 – 25 kV	Ambient temperature (operational)	0°C to +45°C
Current measuring range	50 nA to 1 µA / 10 µA / 100 µA / 1 mA / 10 mA	Storage temperature	-20°C to +60°C
Max. discharge energy		Relative humidity	Non-condensing
For 1 discharge/10 min	3 000 J, 9.6 µF / 25 kV	Dimensions (W x H x D)	Approx. 415 x 140 x 360 mm
For 1 discharge/20 min	5 000 J, 16 µF / 25 kV	Weight	Approx. 16.5 kg
Integrated rechargeable battery		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
Battery type	Lead-acid battery DC 12 V, 6.5 Ah (maintenance free)		
Battery life	Approx. 30 min at 2/3 load		
Charging time	Approx. 24 h		

Load diagram



Standard delivery

- BAUR PGK 25 DC HV tester
- Leather bag for HV connection cable
- HV connection cable, 2.6 m
- Earth cable, 3 m, with earth terminal
- Mains supply cord, 2.5 m
- User manual

Options

- Leather bag for PGK 25
- Battery connection cable red and black, 5 m each
- GDR 40-250 discharge and earth rod