



H.V. TEST

Specialists in High Voltage
Testing & Diagnostics

PGK30D 30kV Digital Insulation Tester

The PGK30D insulation tester is a battery-operated high-voltage generator with a variable output voltage adjustment of negative DC polarity from 0 to 30 kV. It features automatic damped discharge of the circuit under test once the measurement is completed, ensuring maximum operational safety for the personnel involved.

This device is used for various applications, including testing cables, newly installed joints before commissioning, motors, capacitors, switchgear, insulators, and any material requiring dielectric tests up to 30 kV DC. It is also employed for routine testing of cables already in service. The insulation tester is designed to provide maximum protection for both the operator and the instrument, as well as ease of operation. Thanks to its powerful firmware, it performs tests automatically, records the measured parameters over time, and allows them to be downloaded to a USB memory for later analysis on a PC. Functionally, the administrator mode, which is password-protected, enables or disables functions available in the user mode, such as selecting the output voltage at pre-set values, test duration, ramp speed, and more. Its robust construction allows it to operate in the most adverse climatic conditions, with components conservatively rated to ensure maximum reliability in operation.

Features:

- Rechargeable internal battery, making it completely independent of mains power.
- Low weight and compact design.
- Color touch screen display.
- Programmable test ramp.
- Polarization Index (PI) calculation.
- Dielectric Absorption Ratio (DAR) calculation.
- Fully automated testing.
- Recording of measured parameters over time.
- Data analysis software for PC.
- Administrator profile (password protected) and user profile.
- Adjustable and stabilized output voltage.
- Direct voltage measurement at the high voltage output.
- Automatic damped grounding.
- Short circuit at the output is supported.
- User-selectable burner mode.



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PGK30D

30kV Digital Insulation Tester

TECHNICAL SPECIFICATIONS

Voltage

- Output 0 to 30kV DC
- Resolution 0.01kV DC
- Adjustment 125 V to 250 V steps depending on the selected range

Current

- Short circuit 5 mA
- @ 30kV 1 mA max.
- Resolution @10 μ A – 0.01 μ A
- Ranges Manual: 10 μ A, 100 μ A, 1 mA, 10 mA
Auto-ranging: 10 μ A, 100 μ A, 1 mA, 10 mA

Automatic Mode

- Timer 1 to 60 min, in 10second steps
- Output voltage 0 to 30kV in 500V steps
- Overcurrent trip Adjustable from 100 μ A to 4mA in 100 μ A steps. Power off
- Ramp rates 250 V/s, 500 V/s, 1 kV/s, 3 kV/s, 10 kV/s,
- Discharge trip (Guard mode) YES / NO, selectable by the user

General

- Display 5" TFT LCD color touchscreen
- Indication Digital with analog representation, Resistance measurement
Test curve plotting
- Indices PI Default 1 min / 10 min, Selectable 1 to 30 min, 10 to 60 min
- Indices DAR Default 30 s / 60 s, Selectable 10 to 90 s, 15 to 180 s
- Safety Discharge of the tested circuit (damped)
High voltage output indicator light
Indicator light for voltage presence in the tested circuit
Emergency stop (palm strike)
- Timer Count-up timer, Countdown timer, Timer off
- User Profile Administrator (password protected), Operator
- Data Logging Test date, Test recording time,
Maximum voltage, Test duration, Voltage vs. time, Current vs. time
- Data Export USB memory
- Internal Memory 5 tests
- Dimensions (mm) (h x w x d) Case: 340 × 415 × 215, Unit: 245 × 280 × 170
- Weight 8.4 kg (without cables), 9.0 kg (including cables)
- Degree of Protection IP64
- Power Supply / Charging 100–240 VAC 50/60 Hz
- Internal Power Supply 12 VDC 7 Ah sealed GEL battery
- Battery Operation Full load: 60 minutes, Intermittent use: > 15 hours
- Operating Temperature -10°C to +50°C
- Included Mains, 3m HV Cable, Earthing Cable, Discharge rod, Manual
- Optional Glove tester, Damped Discharge rod, 25m HV Cable, 12V DC
Supply Cable, Guard Circuit, Carrying Bag

