

Step 2 of 4 · Surge & conditioning

PG-32

Surge generator, 30 kV



Portable surge and DC set, 0 to 30 kV and 1,800 J, that breaks down cable faults so they can be pre-located and pinpointed.

The PG-32 charges a capacitor and discharges it into the faulty cable. The discharge breaks down a high-resistance or intermittent fault, so the reflectometer can see it and the pinpointer can hear it.

DC output	Surge energy
0–30 kV	1,800 J
Discharge period	Weight
5 s	45 kg

Key features

- 0 to 30 kV DC output, 1,800 J surge energy
- Three modes on one selector: DC, single shot and period
- Automatic discharge every 5 s in period mode
- Arc reflection (ARM) with the TDR-901, through an ARM filter
- Internal 800 W isolation transformer
- Pointer kV meter and an LED scale around the voltage knob
- Bubble level and two carrying handles; can be installed in a vehicle
- Supplied with a calibration approval and certificate

Applications

Breaking down high-resistance and intermittent faults in buried medium-voltage cables, for pre-location by arc reflection and for acoustic pinpointing; DC testing.

Specifications

Output and methods

DC output voltage	0 to 30 kV
Surge energy, nominal	1,800 J
Operating modes	DC, single shot, period
Discharge period	Automatic, every 5 s, in period mode
Test methods	DC test, surge discharge, arc reflection (ARM)
Isolation transformer	Internal, 800 W

Indication and protection

Output voltage display	Pointer kV meter; LED scale around the voltage knob, 0 to 30 kV
Panel indicators	Closed and Separated beside the HV switch; Over-V and Under-V beside the mains inlet, as labelled
Level indicator	Bubble level on the panel

Connections

Earth	Ground and auxiliary ground terminals
Reflectometer	TDR-901 or a higher model
ARM method	Through an ARM filter

Power and environment

Input supply	AC 220 V, 50 Hz (as rated on the unit)
Operating temperature	–10 to 40 °C
Relative humidity	5 to 80 %
Protection class	IP43

Mechanical

Dimensions (L × W × H)	540 × 400 × 500 mm
Weight	45 kg
Case	Steel, powder-coated: orange frame, grey panels
Cooling	Fans behind grilles in the side panels
Handles	Two carrying handles on top, one recessed at the side
Transport	Can be installed in a vehicle

Service

Calibration	Approval and certificate supplied
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In the box

Protection earth rod	1
Cable clamps	2
Discharge probe with earth cable	1
Output cable	5 m
Protection earth cable	5 m
Power cable	1.5 m
Accessory bag, attached to the case	1



Front view with the accessory pouch.