

32kV 1300 Joule Surge Generator

SG 130032



Power



Surge Generators

Electricity supply or distribution companies often find that buried power cables become faulty due to ageing and damage. Because energy cables are normally not supplied in lengths much longer than 300m, inevitably many joints are installed and buried. They are often the cause for cable faults which render the cable useless until repaired and put back into service. Surge generators are used in conjunction with pre-location and pinpoint location equipment to precisely locate the position of cable faults.

Surge generators are mainly used for the location of faults in power cable networks. They come in a variety of models from low voltage to very high voltages.

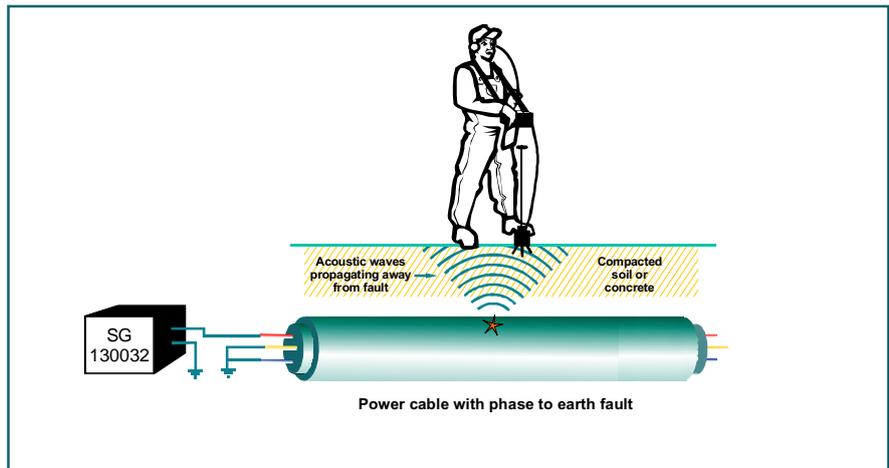
The instrument described on this pamphlet generates voltages adjustable from 0 to 32kV and is typically used in the location of faults in medium voltage networks. The maximum storage energy of the capacitor is 1300 J at 8,16 or 32kV. All surge generators generate high voltages from the mains supply voltage, which is rectified and used to charge capacitors, which is in turn discharged into a faulty cable at adjustable intervals. The unit has an internal automatic dump contactor which discharges both the unit and the cable under test. This is activated when the unit is turned off or when power failure occur. It can be operated in the single shot or continuous pulsing method if correct selection is made. The unit can also be used to perform insulation resistance tests up to the selected output levels.



Supplied by:
Tel: 0027 (0)11 683 4365

Test and Measurement Instruments C.C.
www.instrumentsgroup.co.za

Application



Specifications

Surge Generator

Supply Voltage	220-240VAC
Supply Current	15A
Output Voltage	0-32kV
Surge energy	1300 Joules at 8, 16, 32kV
Weight	80kg
Dimensions	540x420x400mm Excluding lid
Impulse Rate	6 or 10 PPM
Enclosure	Aluminium, Electro statically powder coated
Voltage level adjustment	Continuously adjustable
Meters	Voltage and Current
Proof Testing	Yes
PCA Interface	Built in

Accessories

Lid	Aluminium with canvas bag for test cables
Test cables	5m HT lead with high Current clamps
Earth Lead	5m green/yellow
Mains Lead	2m 3 core



Products available

Surge Generators SG 200032, SG 130032, SG 50016, SG 7505
 Cable Identification System CI75, CI200
 Burndown Unit BU 3500
 Ground Microphone Amplifier GMA105
 Cable Reel System CRS30
 DC Pressure Testers 2010PT
 AC Pressure Testers 3010PT
 Combination Pressure Testers (AC+DC) 5010PT, 7010PT, 10010PT, 3042PT
 VLF Pressure Testers VLF20
 Fault Pre-Locators PCA101+AE101
 Test Vans & Trailers
 Sheath Fault Locators SFL16



Optional : GMA105, Trolley



Rev 2

Supplied by :

Test and Measurement Instruments C.C.
www.instrumentsgroup.co.za

Email: t.m.i@iafrica.com

Tel: 0027 (0)11 683 4365