

16kV 500 Joule Surge Generator



SG50016



Power

Surge Generators

Electricity supply or distribution companies often find that buried power cables become faulty due to ageing or 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.

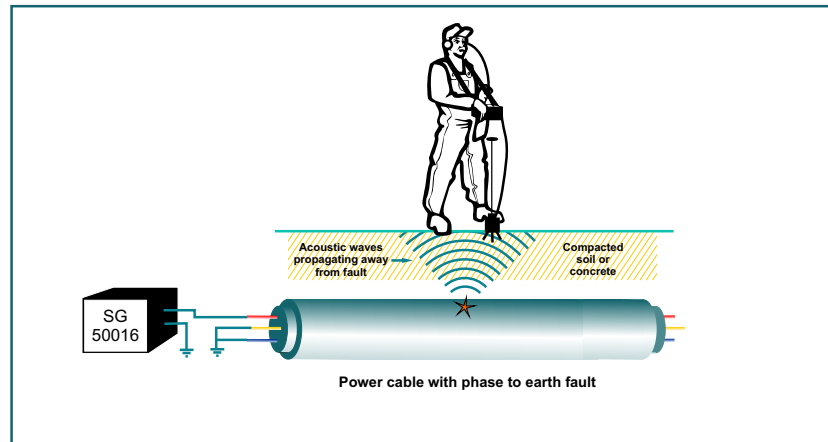
Surge generators are mainly used for the location of faults in power cable networks. They come in a variety of models from low voltage to very high voltages.

The instrument described on this pamphlet generates voltages ranging from 2.5 to 16kV and is typically used in the location of faults in medium voltage networks. The maximum storage energy of the capacitor is 500 J at 4, 10 and 16kV. 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.





Application



Specifications

Surge Generator

Supply Voltage	220-240VAC
Supply Current	10A
Output Voltage	2.5-16kV
Surge energy	500 at 4, 8 and 16kV
Weight	45kg
Dimensions	540x315x330mm Excluding lid
Impulse Rate	6 or 10 PPM
Enclosure	Aluminium, Electro statically powder coated
Voltage level adjustment	Switched between 2.5, 4, 5, 8, 10, 16kV
Meters	1 only voltage Indication
Proof Testing	Yes without current indication

PCA Interface

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



DIN EN ISO 9001:2000
 Certificate: 01 100 045761



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