

32kV 2000 Joule Surge Generator

SG200032

Power

Surge Generators

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

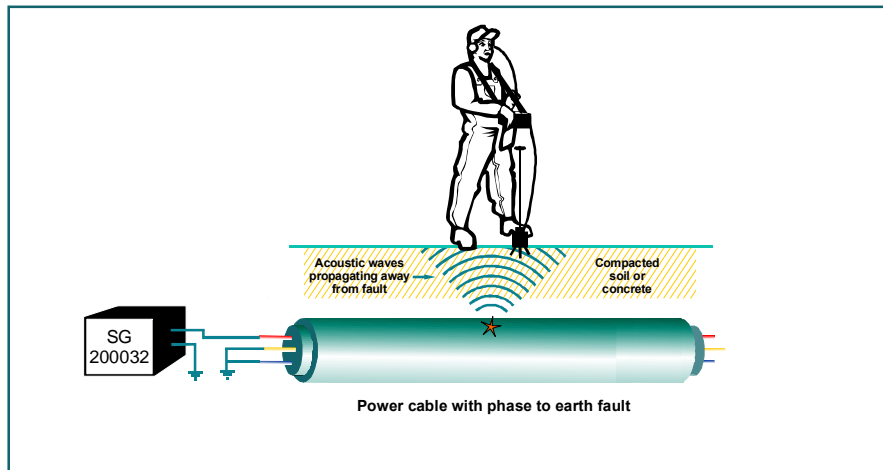
Surge generators are mainly used for the location of faults in power cable networks.

They come in a variety of models from low voltage to very high voltages.

The instrument described on this pamphlet generates voltages selectable 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 2000 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 is automatically made safe when it is turned off or when power failure occurs. 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	15A
Output Voltage	0-32kV
Output energy	2000 Joules Max
Weight	80kg
Dimensions	540x420x400mm Excluding lid
Impulse Rate	6 or 10 PPM
Enclosure	Aluminium, Electro statically powder coated
Voltage level adjustment	Continuously Adjustable
Current level adjustment	Adjustable
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 yellow
Mains Lead	2m 3 core



Products available from ADRET test instruments:

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



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