

# 16kV 500 Joule Surge Generator

SG50016

Power

## Surge Generators

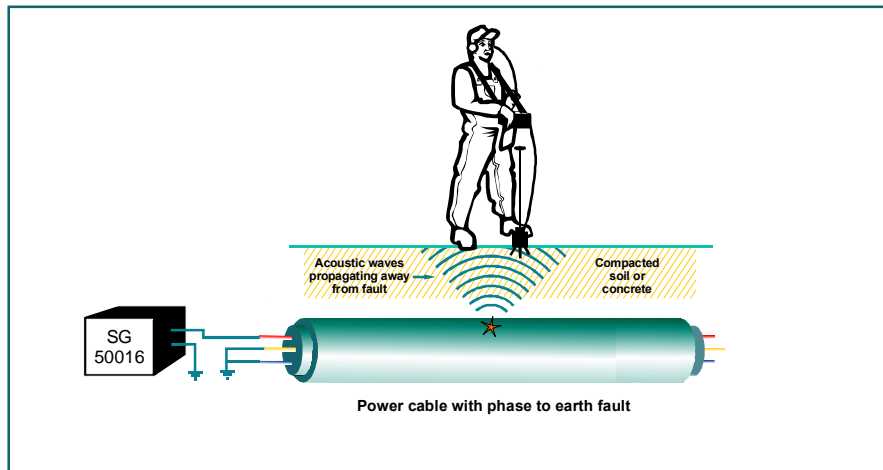
Electricity supply or distribution companies often find that buried power cables become faulty due to ageing or damage. Because energy cables are normally not supplied in lengths much longer than 300m, inevitably many joints are installed and buried. They are often the cause for cable faults which render 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
Impulse Rate	Excluding lid 6 or 10 PPM
Enclosure	Aluminium, Electro statically powder coated
Voltage level adjustment	Switched between 2.5, 4, 5, 8, 10, 16kV
Meters	Voltage Indication and Leakage current Indication
Proof Testing	Yes with Leakage current indication
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 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, PCA101



Rev 2



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