

# Buffalo 32 Fault Location System

BUFFALO 32

Power

## Buffalo 32 System

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.

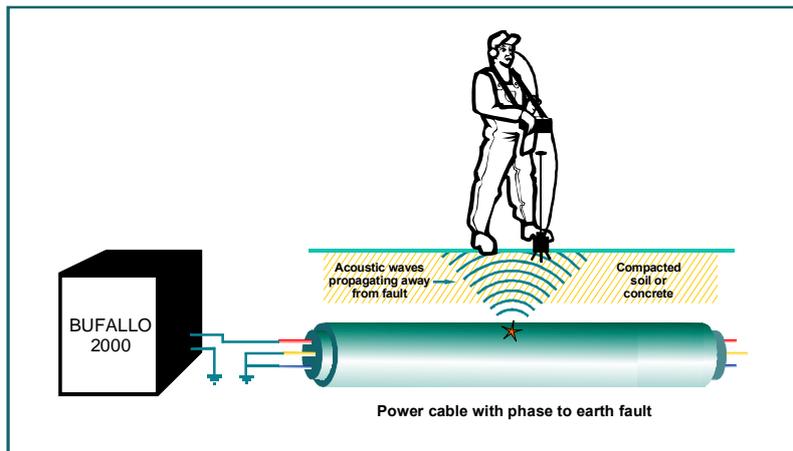
Surge generators are mainly used for the location of faults in power cable networks. They come in a variety of models from low voltage to very high voltages.

The instrument described on this pamphlet generates voltages selectable between 3-32 KV and is typically used in the location of faults in low voltage

networks such as street lighting or smaller consumers. The maximum storage energy of the capacitor is 2000 J at 8, 16 and 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 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. Our very successful Arc-Echo method is added to this unit and forms part of the framework.



## Application



## Specifications

### Surge Generator

Supply Voltage	220-240VAC
Supply Current	16A
Output Voltage	0-32kV
Surge energy	2000 Joules at 8, 16, 32kV
Weight	120kg
Dimensions	950x540x540mm Including lid
Impulse Rate	6 or 10 PPM
Enclosure	Aluminium, Electro statically powder coated
Voltage level adjustment	Continuously adjustable
Current level adjustment	Voltage and Current
Proof Testing	Yes
Scope and Coupling Unit	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
Trolley	Optional extra

#### 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



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