

SCOPE

CFL AG2

Cable Fault Audio Generator



Locate the Cable Route precisely with CFL AG Series

The Product

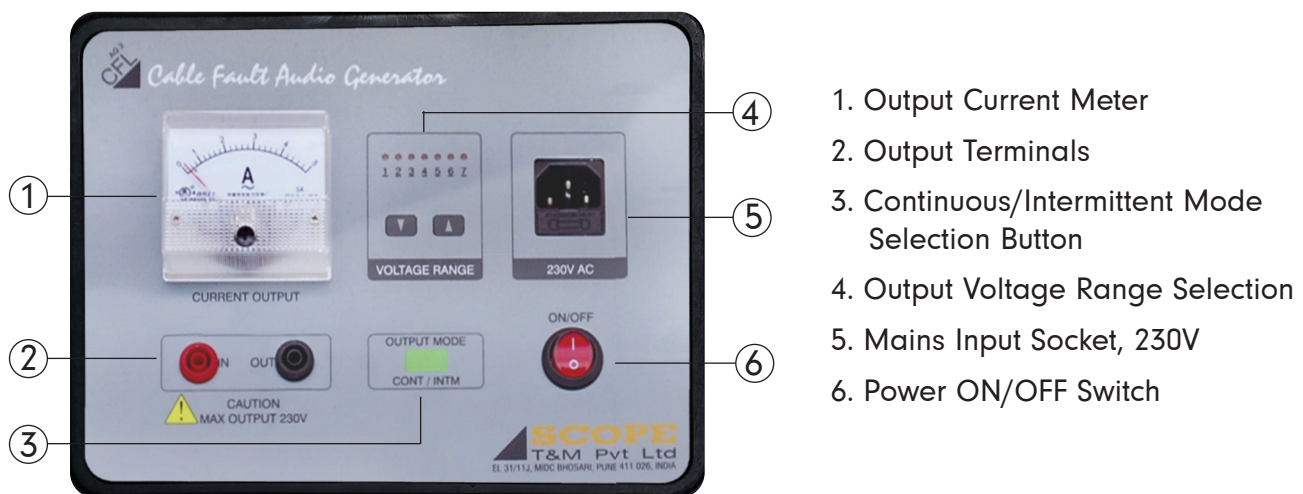
Underground cable faults cannot be avoided due to many factors such as ageing, moisture ingress, road widening, infrastructure improvement, digging carried out for repairs of other underground utilities etc.

These faults generally take long time to detect and hence long time to repair the damaged cables and restore the power supply. Long outages cause heavy production loss to industries, revenue loss to power distribution companies and inconvenience to consumers. This calls for quick fault location and restoration of power supply in minimum possible time.

An ordinary fault locating kit comprising of Surge Generator and Pinpointing set can take long time to locate fault point. SCOPE offers Audio Generators that can help the operator for reaching the spot quickly and pinpointing the fault in a short time by determining the cable route.

The new generation CFL AG2 Cable Fault Audio Generator from SCOPE is the ultimate solution for locating the underground cable lay in minimum time. It uses advanced technologies for auto impedance matching, stabilized frequency which helps even an unskilled operator to locate the cable accurately.

CFL AG2 portable Audio Generator to locate the exact route of the underground cable in conjunction with Pin Pointer cum Rote Tracer i.e., CFL PP Series. This configuration is also used for depth determination of the cable and for pinpointing of low resistance faults. Various modes of operation combined with advanced features offers user the most effective solution for the job.



1. Output Current Meter
2. Output Terminals
3. Continuous/Intermittent Mode Selection Button
4. Output Voltage Range Selection
5. Mains Input Socket, 230V
6. Power ON/OFF Switch

Application

Route Tracing of Underground Cable

The exact route of the cable is determined by using Audio Induction Method. A very high frequency, Sinusoidal AC signal is injected into the Cable Under Test (CUT) using Audio Frequency Generator, which completes its path through Earth. This signal is detected by Route Tracer Sensor (Search Coil) which is parallel to earth surface; simultaneously displayed on Route Tracer Receiver in the form of graphs and heard on the Headphones in the form of Sound. Maximum signal strength is to be detected exactly above/over the Cable and when the movement of the Search Coil away from the Cable which will get weak signal result. This will help to identify the exact cable route.





Features




- Compact, Lightweight and Rugged
- Operation via User Friendly Interface
- Variable output power up to 20 Watt
- Automatic load matching
- Works effectively with high impedance loads
- Quartz Stabilised Frequency
- Continuous or Pulsed signal injection
- Over current protection
- Water resistant and dust proof design

Specification

Parameter	CFL AG2
Output Power	Maximum 20 Watt
Max. Output current	2.8A±20%
Frequency	1KHz sine wave
Output Voltage	4-7V/15-25V/30-40V/60-70V/90-100V/150-170V/200-230V
Display	Analog Meter for Output Current
Input Power Supply	AC 230V ±10%, 50Hz ±10%
Protection	Over Current / Load
Environmental (Operation)	0°C to 50°C, 95% RH (Non-Condensing)
Environmental (Storage)	-10°C to 60°C, up to 98% RH (Non-Condensing)
Dimension	275mm x 255mm x 130mm
Weight	4kg

Scope of Supply

Items		Test Lead Set Configuration		
		2m TLS	5m TLS	10m TLS
	CFL AG2+ housed in a molded case	1 No	1 No	1 No
	1 x Output Cable	2m	5m	10m
	Mains Input Cable	3m	5m	5m
	1 x Soft Carrying Bag for Main Instrument and other accessories	1 No	1 No	1 No

Items		Test Lead Set Configuration		
		2m TLS	5m TLS	10m TLS
	Spare Fuse Set	1 Set	1 Set	1 Set
	1 x Factory Test & Calibration Report	1 No	1 No	1 No
	1 x Operation Manual	1 No	1 No	1 No

Ordering Code

Example: CFL AG2	F	F	F	F	F	N	F	F	2	R	I	N	#
CFL AG2	F	F	F	F	F		F	F					
F Reserved													Customised Z
F Reserved													None* N
F Reserved													Universal Plug U
F Reserved													Indian Plug* I
F Reserved													110V ± 10%, 50/60Hz AC Input Q
N None*													230V ± 10%, 50/60Hz AC Input* R
Z Customised													Customised Length of Test Lead Set Z
F Reserved													5m Test Lead Set T
F Reserved													2m Test Lead Set* 2

Note: * Standard accessory / feature

#CFL AG2 (Order Code : FFFFFNFF2RIN) - Audio Frequency Generator, 2m Test Lead Set, 230V ± 10%, 50/60Hz AC Input, Indian Plug (Make : SCOPE)

Simple solutions for difficult measurements®

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