

LFG-50 & PT-14

CABLE TRACING AND FAULT LOCATION SET

- Ability to work with energized cables
- Multifrequency operation
- Automatic load impedance matching
- High-contrast graphic OLED display
- Portable and lightweight



Ability to work with energized cables

Low frequency generator LFG-50 is a powerful 50-Watt portable generator with built-in battery that can have up to 12 operating frequencies (4 sets with 3 frequencies each). When operated in conjunction with a receiver can be used for locating and tracing of underground metal communications such as live and deenergized cables or any metal pipes.

Multifrequency operation

Low frequency generators provide automatic load adjustment, single or two-frequency operation, and overload protection via direct

connection to an object or via internal loop antenna.

Automatic load impedance matching

A load matching is made automatically. If a load is higher than 1000 Ω LFG-50 automatically switches into output voltage setting mode. The output overload protection will trip, when operating on short-circuit loops (lower than 0.5 Ω).

High-contrast graphic OLED display

Display reads the main test parameters such as the output power, load impedance, and selected frequency.

PT-14

CABLE ROUTE TRACER

The Cable Route Tracer is used for cable line location, tracing and depth measurement. Also, using the receiver the user can locate T- and Y-splices, under-surface transformers, and test a cable's shield integrity.

Cable Route Tracer	PT-14
Operating frequencies, Hz	273 / 491 / 526 / 982 / 1024 / 2000 / 2048 / 8440 / 8928 / 9820 / 10000 / 33000
Bandwidth:	
▪ RADIO mode, kHz	10 ... 36
▪ ONLINE mode, Hz	48 ... 10 000
Sensitivity, μV	1
Cable depth measurement accuracy, %, max	5
Dimensions, W x H x D, mm	700 x 300 x 140
Weight, kg, max	2.4



Technical specification

Low Frequency Generators	LFG-50
Output frequencies*, Hz	491/982/8440 480/1450/9820 526/1024/8928
Number of frequencies for multi-frequency operation	1 ... 3
Output power adjustment range, V·A	0 ... 50
Increment for manual power adjustment, V·A	2.5
Frequency selection	manual
Operation modes	continuous, pulsed
Impedance matching	automatic
Impedance matching range, Ω	0.5 ... 1000
Output voltage (RMS), V, max	300
Range of measured and indicated parameters:	
▪ output voltage, V	0.1 ... 300
▪ current, A	0.01 ... 9.99
▪ load impedance, Ω	0.5 ... 1000
▪ phase angle, °	0 ... 90
Voltage, current, impedance measurement accuracy, %	5
Phase angle measurement accuracy, %	10
Modulation type	amplitude
Pulse frequency, Hz	1
Power supply and battery:	
▪ battery voltage, V	12
▪ time of continuous battery-powered operation, hours, min**	1
▪ average battery charging time, hours	3
▪ external mains supply voltage, V	230 \pm 10 %
▪ external mains supply frequency, V	50 \pm 1 Hz
▪ external power source voltage, V	10 ... 15
Mains power consumption, V·A, max	100
Current consumption from external power source (12 V), A, max	8
Weight, kg, max	8
Dimensions, W x H x D, mm, max	366 x 270 x 178
Ambient operation temperature, °C	- 10 ... + 40
Ambient storage temperature, °C	- 20 ... + 60
Relative air humidity	Non condensing
Atmospheric pressure, mm Hg	630 to 800

* User-specific frequencies on request.

** Using lower output power or pulsed mode when the Generator is battery-powered helps to significantly conserve the battery life.

Package contents

Low Frequency Generators	LFG-50
Power cable (length 2.4 m)	1
Grounding cable (length 2.5 m)	1
Wire for connecting cable under test (red, black)	2
Alligator clip	3
Safety fuse 5×20 (1 A/250 V)	1
Safety fuse 5×20 (10 A/250 V)	4
User manual	1

