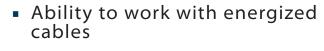
# **LFG-50 & PT-14**

#### CABLE TRACING AND FAULT LOCATION SET



- 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  $1000 \Omega$  LFG-50 automatically switches into output voltage setting mode. The output overload protection will trip, when operating on short-circuit loops (lower than  $0.5 \Omega$ ).

#### 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:	
<ul><li>RADIO mode, kHz</li></ul>	10 36
<ul><li>ONLINE mode, Hz</li></ul>	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

	156.50
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, $\Omega$	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 ± 10 %
external mains supply frequency, V	50 ± 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 <b>+</b> 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

