UNDERGROUND CABLE FAULT LOCATING EQUIPMENTS & SYSTEMS

SLE 200-Z **Surge Wave Receiver**

Description

Surge Wave Receiver SLE200-Z is a highly sensitive equipment to exactly locate the fault point in a short time. It can be used on low, medium and high voltage power networks effectively.
The success of locating exact fault point on the underground cable depends on the search carried out on the lay of the cable. This calls for an indication to guide the operator to walk precisely on the cable route.

Application

The SLE 200-Z Surge Wave Receiver is an easy operation device used to pinpoint the fault point. It integrated the function of acoustic magnetic synchronization method, the step voltage method, the magnetic field strength method to make the pinpointing accuracy.

Features

- Perfect functions, suitable for pin-pointing all kinds of cable faults and detect cable path.
- High accuracy
- Synchronous sensing of acoustic and magnetic signals of the fault with high ability to anti-interference.
- Waveforms displayed on large LCD
- With the assistance of the earphone, direct and easy to identify the fault.
- High Acoustic & Magnetic field sensitivity
- High Performance electronic suppression of external noise and interference
- Automatic contactless turn off of the Headset, as the hand approaches the handle
- Indication of the direction to the fault -. Compass
- Comparison of last and the new measurement
- Low batt indication.
- Graphical indication of the magnetic field
- Indication of the acoustic signal detection
- Indication of all adjustments and settings
- Fault distances measurement
- Measure of magnetic field and sound coincidence with acoustic selection and calibration of the measuring range.
- Indication of cable position in respect to the sensor.
- Cursor to identify the time of delay between the acoustic signal and the magnetic signal, thus to confirm the fault range
- Automatic switch between different work modes
- Automatic gain adjustment
- Indication of cable position in respect to the sensor
- With back light, automatic power-off and overcharge protection functions. Easy to operate

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001:2015

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Working Principle

Acoustic magnetic synchronous pinpointing method is a accuracy and based on traditional audio magnetic pin-pointing method but with improvement.
Traditional method use the high voltage generator to impact the fault cable by DC high voltage to make the fault point breakdown and discharge. The mechanical vibration from this delivered to the earth and be collected by the sensor, which is synchronous with the special sound.

The traditional method only use the earphone to monitor and use the meter pointer to help to distinguish the discharging sound. Because this discharging sound is fleeting and difficult o distinguish from the environment noise, it common requires rich experience user.

To modify the traditional method, we now use acoustic magnetic synchronous pinpointing method.

Because the magnetic transmission velocity is much quicker than the acoustic transmission velocity, It's definitive sample to find the faulty point by testing the time difference between magnetic signal and audio signal. Keep moving the sensor to find the point with min. time difference, and this will be the fault point.

Please also notice, because there's no exact data for the acoustic velocity in the cable and have no exact data of the cable depth, it is difficult to calculate the distance between the sensor and the faulty point.

Standard Accessories

- Ground Sensor
- Headphones
- Carrying Stick - Connect to Sensor
- Connecting Cables
- Carrying Case
- Instruction Manual

Standard Warranty	**One Year**
Other models available	**Surge Wave Receiver SLE 90 & SLE 200**
Associated Surge tester use to pin-point cable faults with surge receiver	**Surge Tester SWT 4, SWT 16 & SWT 32**

Specifications

Acoustic magnetic synchronous pin-pointing
Acoustic channel
Bandwidth — All -pass 80Hz~1500Hz
Low-pass 80Hz~400Hz
High-pass 200Hz~1500Hz
Band-pass 150Hz~600Hz

Signal gain — ≥110dB

Accuracy — 0.1m

Step voltage function (optional) — Magnification times>80db

Gain Adjustment — Manual

Indication of the direction to the fault - Compass - Yes

Indication of Acoustic signal detection - Yes

Power Supply
Battery — Built-in Li-ion battery 7.4V- 3400mAH

Working time — 9 hours approx

Charger — Input AC220V±10%,50Hz,
Output 8.4V,DC 1A

Quick charging below 4 hours

Display method — 320 x 240 dot LCD Screen

IP Protection — Sensor - IP 54, Receiver - IP 65

Dimensions — 210mm × 95mm × 115mm

Weight — 0.6kg

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