



SLE 200-Z

Surge Wave Receiver

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 the 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.

Function

The surge wave receiver is a sensitive amplifier circuit: It has two separate channels magnetic and acoustic. The acoustic channel is a wideband pass filter and the magnetic is a high frequency active filter.

The main function of the receiver is to amplify the signal which is received from the ground microphone and displayed on LCD display. To adjust the level of amplification separate level control for magnetic and volume control for acoustic channels is provided on the front panel.

Features

- ✓ Perfect functions, suitable for pin-pointing all kinds of cable faults and detect cable path.
- ✓ 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 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
- ✓ Low batt indication.
- ✓ Indication of the acoustic signal detection
- ✓ 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
- ✓ Automatic switch between different work modes

Applications

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.

Working Principle

Surges of high voltage are passing into the faulty cable through a suitable surge tester; a magnetic field is developed around the cable. When the ground microphone is kept perpendicular to the ground surface of the underground cable, the magnetic channel will start to indicate the presence of a magnetic signal and show on LCD bar graph and depending on the soil and fault condition, the noise and vibrations are received by it from a certain distance and the acoustic channel starts showing its presence.

When reached at the fault point the acoustic bar-graph display is at its maximum level, hence achieving the pin-pointing of cable fault in the shortest possible time.

Technical Details

SLE 200-Z

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	$\geq 100\text{db}$
Accuracy	0.5m
Compass	Yes
Indication of Acoustic Signal Detection	Yes
Powe Supply Battery	Built-in Li-ion battery 7.4V- 3400mAh
Working Time	10 Hours
Charger	Input AC220V + 10%, 50Hz Output 8.4V, DC 1A
Quick Charging	4 hours
Display Method	320 x 240 dot LCD Screen
IP Protection	Sensor - IP 54, Receiver - IP 65
Dimensions	210mm x 95mm x 115mm
Weight	0.6 Kg

Standard Accessories

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

Contact Details

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