GD-2138 Cable Fault Locating System (All-in-one)

General Information

GD-2138 Cable Fault Locating System Is Movable Cable Fault Detection Device Which Is Applicable For Various Types Of Power Cable, Communication Cables. It Can Accurately Measure The Distance Of Cable Fault And Locate The Fault Point.

The System Includes:

GD-2138 Mainframe.

GD-2132R Receiver.

RF Inductive Tracking Rod.

Potential Difference Locating Rack with 2 pins.

AF Stethoscope and Headphones (for Listening mode).

Grounding Pin.

GD-2138 Main Unit

Headphone

Charger

Grounding Pin

GD-2132 Receiver

Potential Difference Locating Rack

RF Inductive Tracking Rod

Features

- Large LCD display, easy to operate.
- Directly detect high resistance fault, without burning.
- Display the direct or relative distance between testing and fault points.
- Auto search along the wave for inflexion, easy to measure fault distance.
- Waveform Comparison Method helps to detect puzzling fault.
- Wave velocity of test cable can be calibrated.
- Test data and wave can be saved, viewed and printed.

Specifications

Power supply	AC220V and Built-in Chargeable Battery
Fault Distance	Max. 32km
Resolution	1m
Fade Zone	1m
Impulse Voltage	0~15kV (35kV is extensible)
Rated energy	900J (2450J base on 35kV)
Ambient Temperature	0~40℃
Ambient Humidity	<80% RH
Dimension	750*570*1200mm
Weight	120kg.

GD-2138 Main Unit

The GD-2138 is the test unit for the cable fault location system. It measures cable fault distances, probing test cables and fault location.

1. Type of cable fault that can be detected

   High resistance flashover

   High resistance leakage

   High/low resistance grounding

   Short circuit

   Open road

   Poor contact

2. Main features

   - High measurement accuracy, clarity 1M;
   - LCD screen, menu display, function buttons, simple operation;
   - High-impedance cable faults can be detected without burning through;

- display the direct or relevant distance between the test point and the fault point;
- Automatically search for inflection waves to facilitate measuring cable distances;
- Waveform comparison method detects unknown faults;
- Test cable wave speed can be calibrated;
- Save, view, and print test data and waveforms.

3. Main parameters

Input power	AC220V, built-in rechargeable battery
The farthest test distance	32km
Detection blind zone	1m
Reading resolution	1m
Impact voltage	0-15kV
Ambient temperature	0°C~+40°C
Ambient humidity	<80% RH
Size	750*570*1200mm
Weight	128kg.

GD-2132 Receiver

GD-2132 is a special instrument for cable and cable fault location test. It is suitable for various optical cables and cables with metal conductors (pairs, sheaths, shields).

Its main functions are the positioning test of poor ground insulation, the detection of cable circuits and the test of cable depth. It is characterized by high receiving sensitivity, small static drift, strong anti-interference ability, stable operation and high accuracy. Because the instrument is powered by a small nickel-cadmium battery, the instrument has the advantages of small size, light weight, low power consumption and portability, and is especially suitable for field operations.

Main technical performance

Maximum tracking positioning distance	20km, or 3km (Φ< 0.5)
Fault insulation resistance value of quasi-determined point	0~50MΩ
Positioning test accuracy	≤ ± 10cm
Detection cable depth	≤3m

Special Note:

The instrument is used in a voltage-free state of the cable under test.