



TFN DG15M High Anti-interference Cable Fault Tester

Accurately locates and troubleshoots in complex environments



Product Overview

The DG15M is a multifunctional cable fault tester designed for complex electromagnetic environments. It integrates the functions of locating broken cables, short circuits, and ground leakage currents, as well as cable routing. It is optimized for use in high-interference environments, such as under high-voltage cables and in cable trenches. It is an ideal tool for rapid underground cable maintenance in industries such as power, communications, and municipal administration.

Core Functions of the Product :

1. One-click multi-function test
 - Length test: In the power-off state, quickly determine the cable break, the distance to the short-circuit fault point and the total cable length.
 - Leakage detection: Accurately locate ground leakage faults caused by damaged insulation layers of buried lines (insulation resistance within 0.5 megohms).
 - Path finding: Easily detect the path direction and buried depth of underground cables, facilitating construction and maintenance.

2. Original high anti-interference design

Unique anti-interference channel uses a high-performance filtering circuit to effectively suppress power-frequency interference. Even in strong interference environments like under high-voltage lines, near transformers, and in cable trenches, the signal remains clear and stable, eliminating noise interference.

3. Intelligent diagnosis and waveform analysis

- Waveform comparison function: It can simultaneously display and compare the waveforms of "good line" and "fault line", and intuitively judge the fault type and location through the graphical interface, reducing dependence on operator experience.
- Manual test mode: supports manual setting of key parameters such as beam speed and gain to meet the in-depth customized testing needs of professional users.



4. Integrated signal generator and digital multimeter

Built-in adjustable signal generator (adjustable amplitude, frequency and type) provides the best signal source for various test scenarios.

The integrated multimeter function can directly measure voltage, loop resistance, and insulation resistance, allowing for quick on-site screening of line status in one step.

Solve your core work pain points :

- Pain point: Traditional equipment cannot work due to severe signal interference in complex environments such as high-voltage lines and cable trenches.
- ◆ DG15M Solution: High anti-interference design ensures clear signal capture and precise positioning even in the worst electromagnetic environments.
- Pain point: When the inner core wire of the armored cable fails, the signal is shielded by the outer armor, making it difficult to detect.
- ◆ DG15M Solution: The length test function is not affected by the outer armor shielding and can directly measure the precise distance of the broken wire and short circuit point for rapid positioning.
- Pain point: The fault waveform is complex and difficult to identify, making it impossible to determine the fault location.
- ◆ DG15M Solution: The unique waveform comparison function makes fault points visible and easier to judge by comparing good and bad line waveforms.
- Pain point: Multiple tools need to be carried on site, such as multimeters and signal generators, which makes the operation cumbersome.
- ◆ DG15M Solution: The multifunctional integrated design integrates all necessary functions into one machine, reducing the load and improving efficiency.

Wide range of application scenarios :

1. Power system: Troubleshooting of high and low voltage underground cables of 10kV and below.
2. Communication network: Maintenance of power cables and communication cables of tower communication base stations.
3. Municipal engineering: path finding and fault location of street light lines and traffic signal lines.
4. Agricultural irrigation: inspection and maintenance of underground cables in farmland irrigation areas.

Customer FAQ :

Q: Can DG15M be used under high-voltage lines?

Absolutely . This is the core advantage of the DG15M. Its high anti-interference design is specifically designed for such complex environments, ensuring signal stability.

Q: Can armored iron cables be tested?

A: Yes. Whether it is armored cable or ordinary wire, DG15M can effectively test it.

Q: What voltage level of cables can be tested?

A: It can test various types of cables ranging from several hundred volts to less than 10kV .

Q: What specific fault types can be detected?



A: It can comprehensively detect cable breakage, short circuits, and ground leakage faults, and can also detect the path of buried cables .

Why choose DG15M?

Comprehensive solution for complex field conditions . Designed from the ground up to address the biggest pain point of traditional equipment— poor anti-interference capabilities —it significantly reduces the difficulty and time of troubleshooting through multi-functional integration and intelligent waveform analysis , enabling every field engineer to become a troubleshooting expert.

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