D43E
Intelligent Cable Fault Location System

- Fully integrates a DC high-voltage generator, a high-voltage capacitor, an advanced multiple-pulse arc reflection unit (inductive type), and various signal acquisition functions into a single system;
- Motor-driven high-voltage switchgear technology eliminates the risk of errors from manual switching or manual wiring;
- Capable of conducting DC withstand voltage, burn-through, and fault breakdown tests up to 40kV;
- 32kV single-stage capacitor, with a maximum impact energy output of 2048 joules;
- Safety monitoring and protection for ground voltage and ground resistance;

Features and Technical Specifications

●A powerful, advanced portable cart-mounted intelligent fault location system that integrates a DC high-voltage generator, a high-voltage capacitor, an advanced active multiple-pulse arc reflection unit, and various signal acquisition functions;

●The patented low-voltage control technology for high-voltage switch assemblies enables motorized switching between multiple test modes. During testing, all high-voltage wiring changes are automated without manual intervention, completely eliminating the risk of errors from manual switching or manual wiring to ensure safety and reliability.

●Incorporates an advanced active multiple-pulse arc reflection filter, which extends arc stabilization time, makes it easier to detect breakdowns caused by moisture or water ingress faults, and produces clearer waveforms.

● Test Methods: Low-voltage pulse method, advanced active multiple-pulse arc reflection method, impulse current sampling/impulse location, DC current sampling, DC output, DC pulse output.

● Built-in high-voltage output terminals with high-voltage silicone coaxial cable for simple, safe, and reliable wiring.

● Wide wheels ensure stability, facilitating transportation and field operations.

● DC high-voltage output: 0–40kV negative polarity, maximum output current: 76mA

● Impulse Capacitor: 0–32 kV/4 μF, with a maximum output energy of 2048 J;

● Built-in ball gap impulse discharge: Low-voltage controlled solenoid valve air gap, adjustable discharge cycle 3–12 seconds.

● Sheath testing and sheath fault location: 1:1–1:6 seconds.

● Protection:

Under any circumstances, pressing the " HV OFF " button activates a dedicated built-in safety mechanism to rapidly and automatically discharge residual charge from the impulse capacitor and the cable under test, ensuring safety.

Zero-voltage position protection: Prevents misoperation, safeguarding personnel and test specimens.

High-voltage limit: Automatically stops and discharges when exceeding the set maximum voltage;

Ground voltage and ground resistance safety detection protection;

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Xi'an Gaoce Electric Co., Ltd.
www.gaoce-e.com
Email: info@gaoce-e.com
Tel: 0086-029-88212606
Fax: 0086-029-88212609