

Ronaldo Cable Fault Locator



Special Features

- Accurate fault localization: It utilizes 1800J of impact energy, providing clear waveform feedback of the fault point.
- Utilizing a waveform sampling rate of up to 400MHz allows for waveform measurements that closely replicate the original waveform and the waveform of each phase cable can be compared.
- User-friendly - featuring an automatic mode, this device allows for one-key testing using the low-voltage pulse method. The system automatically selects the appropriate range and gain, providing direct fault distance localization.

Description

The Ronaldo Cable Fault Locator manufactured by Beijing KGT is mainly composed of Ronaldo HV (High Voltage) Generator and TDR-RT Time Domain Reflectometer, including various Pre-location methods, such as low voltage pulse method, ICM (impulse current method), ARM measurement (Arc reflection method), multiple pulse(MIM) method.

It can resolve the malfunctions and locate the fault points, which contains low resistance, high resistance, intermittent, flashover, leak and disconnection fault on various cables of 380V, 6KV, 10KV, 35KV, 110KV, 220kV.

TDR-RT reflection method can locate disconnected and low resistance faults, which is also able to measure the full length of the cable or correct the wave speed.

1800 J of surge energy provide the necessary power for accurately pinpointing cable faults with the acoustic method. Big wheels make the unit suitable for easy operation in the field. Connecting cables for earthing, mains, and HV are conveniently accessible at the rear of the unit.



Application

- Rail Transit
- Petrochemical
- Metallurgy
- Airport
- Power Grid
- Cable Plant
- Oilfield
- Power Plant
- New Energy
- Municipal

Technical Features

- DC-testing up to 30 kV
- Prelocating
 - Reflection measurement
 - ARM measurement (Arc Reflection Method)
 - ICM Impulse Current Method
 - MIM Multiple pulse Method
- Burning (fault conditioning) up to 30 kV
- Cable tracing-used to do route tracing, pipe exploration and depth measurement of the underground cables and metallic pipes (optional)
- Pinpointing-used to pinpoint the fault point (optional)

Scope Of Delivery

- Ronaldo HV Generator; 0 ... 32 kV
 - Ronaldo Time Domain Reflectometer
 - Trolley on wheels
 - Operating manual
 - Set of connecting cables
- Options / accessories
- Pinpointing receiver CFP-7
 - Underground cable tracer PL-15



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Technical Specifications

Ronaldo HV Generator	
Output Surge Voltage	0~30kV (Continuous adjustable)
Cable Voltage	380V-220kV
Maximum Burning Energy	800W
Maximum Burning Current	30mA
Capacitance	4 μ F
Maximum Single Surge	1800J
Insulation Testing	2k Ω —10M Ω
Operation Temperature	-15 $^{\circ}$ C ~50 $^{\circ}$ C
Dimension	650 × 670 × 110 mm
Weight	86 kg
Power Supply	220V 15%, 1 kVA
Protection Degree	IP53
Ronaldo Time Domain Reflectometer	
Working Mode	Low voltage pulse(TDR), pulse current(ICM), multiple pulse(MIM)
Signal Gain Adjustment Range	70dB
Low Voltage Pulse Emission Voltage	30V
Measurement Error	$\pm (0.5\% \times L + 1M)$, $L \geq 20m$
Low Pressure Pulse Width	40ns~ 20.5us
Highest Resolution	0.1m
Maximum Sampling Frequency	400MHz real-time sampling
Maximum Range	100km
Wave Speed Setting Range	100m/ US ~300m/us
Ranging Blind Area	2M
Numbers of Waveform Saved	100 pcs
Communication Interface	USB, Bluetooth (optional)
Power Supply	lithium-ion battery pack, nominal voltage 7.4V,6000mAh
Battery Power Supply Time	lithium-ion battery pack, nominal voltage 7.4V,6000mAh
Charger	input AC220V, 50Hz, charging current 2A, charging time 6 hours
Dimension	391×307×173 mm
Weight	host unit 2.6kg
Conditions of Use	Temperature: -10 $^{\circ}$ C ~ +40 $^{\circ}$ C Humidity: 5% ~ 90% RH (25 $^{\circ}$ C) Altitude: H <4500m

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