



RDCD-II/507 Cable Pipeline Detector

- It is mainly used for comprehensive testing of cable fault point location, identification, path and depth. With precise positioning of low-resistance faults to ground, detection of faulty or operational cables, automatic impedance matching, multiple detection modes, it is suitable for the detection of various cables. Multi-antenna, multi-channel, directly display the depth of the buried cables. With current measurement function and the built-in ohmmeter to measure loop resistance.
- ★ Working frequency: low frequency, medium frequency, high frequency, radio frequency, combined frequency, 50Hz
 - ★ Working mode: direct connection method, induction method, compilation method
 - ★ Matching load: 5-3000 ohms; Impedance display: four digits
 - ★ Power output: low gear, mid-range, high gear
 - ★ Antenna mode: valley method, crest method
 - ★ Intensity indication: 0-999
 - ★ Dynamic range: 105dB
 - ★ Current indication: Displays the effective current value of the cable under test
 - ★ Synchronous positioning: GPS location tracking



RDCD-531A Overhead Line Fault Tester

- It is a single-phase ground fault point patrol device for distribution line, which can be used to find single-phase ground fault points of 6kV, 10kV, 20kV and 35kV overhead lines.
- ★ It can find the fault fast, and the error of the fault point does not exceed 1 meter.
 - ★ The signal source is powered by rechargeable lithium battery, which is small in size, light in weight and easy to carry
 - ★ The operator operates through an insulating rod, and the overvoltage protection device inside ensures the operation safe.
 - ★ AC detection voltage output: 0-3kV
 - ★ AC detection current output: 0-40±2mA
 - ★ DC ground impedance voltage output: 0-4.2kV
 - ★ DC ground impedance current output: 0-37±2mA
 - ★ Length of detection line: ≤100km
 - ★ Ground impedance measurement: 0-2000kΩ, accuracy 10%±2kΩ



RDCD-505A Cable Fault Identifier

- The variable frequency pulse power supply is adopted and the principle of electromagnetic induction is used to accurately identify the stopped or running cable. It has the function of measuring voltage, current, and frequency.
- ★ Pulse output: 0-5A/600V
 - ★ Pulse frequency 512, 1500, 3300, 15000Hz
 - ★ Output gear: automatic impedance matching
 - ★ Display: 7-inch true color LCD screen
 - ★ Power supply: built-in battery
- Receiver:
- ★ Test jaws: φ200mm flexible
 - ★ Judgment method: amplitude polarity double judgment (phase angle is optional)
 - ★ Voltage measurement :0. 01-600V±2% + 3 digits
 - ★ Current measurement: 0. 01-5000A ±2% + 3 digits
 - ★ Frequency measurement: 40-70Hz±2% + 3 digits
 - ★ Working power: 9V battery



RDCD-505DS Cable Fault Identifier

- This product has the functions of live cable identification, power failure cable identification, AC current test, and AC voltage test, which is designed for power cable engineers and cable workers to solve the technical problems of cable identification. Both the transmitter and receiver are powered by a large-capacity rechargeable lithium battery.
- Transmitter:
- ★ Transmission frequency: 625Hz, 1562Hz, 2500Hz, 10KHz (identification when charged).
 - ★ Pulse voltage: 500V (identification when power failure).
 - ★ Pulse current: up to 5A (depending on the value of loop resistance).
 - ★ Pulse frequency: 1 time/s
 - ★ Pulse width: 2ms
- Receiver:
- ★ AC voltage range: 0.00V-600V (50Hz/60Hz).
 - ★ AC current range: 0.00A-5000A (50Hz/60Hz).
 - ★ Current frequency range: 45Hz-70Hz
 - ★ Detection range: pulse signal with loop resistance of 0Ω-10kΩ during power failure identification, pulse signal with loop resistance of 0Ω-200Ω during live identification
 - ★ Detection rate: about 1 time/s
 - ★ With signal calibration and direction recognition functions



RDCD-506ZS Cable Fault Piercing Device

- It is a special instrument that further destroys the cable after cable identification and before its sawing. It 100% confirm whether the cable is live and absolutely guarantee the personal safety of the staff. Wireless plus wired operation makes it safer and more reliable.
- ★ Number of guns: Single gun (RDCD506), double guns (RDCD506S).
 - ★ Operating distance: Wired: 5m+; wireless: ≥10m (remote control through the wall)
 - ★ Width of clamp diameter: 30-160mm
 - ★ Nail size: 25-60mm
 - ★ Bullet power: Black, blue, yellow, red
 - ★ Working power supply: DC 12V ± 5% / 4A
 - ★ Charging power supply: AC 220V (110%) 50Hz (1 ± 5%)



RDCD-506YS Cable Fault Piercing Device

- It is a special instrument that further destroys the cable after cable identification and before its sawing. It 100% confirm whether the cable is live and absolutely guarantee the personal safety of the staff. Wireless plus wired operation makes it safer and more reliable.
- ★ Number of guns: Double guns
 - ★ Operating distance: wired: 5m+; wireless: ≥10m (remote control through the wall)
 - ★ Width of clamp diameter: 30-160mm
 - ★ Nail size: 25-60mm
 - ★ Bullet power: Black, blue, yellow, red
 - ★ Working power supply: DC 12V ± 5% / 4A
 - ★ Charging power supply: AC 220V (110%) 50Hz (1 ± 5%)



RDCD-60QW Digital Burn-through Bridge

- It is used for the burn-through of high-voltage cable insulation defective points and high-resistance leakage fault points, and to make them meet the fault test requirements. It can also be used for DC withstand voltage test of high-voltage cables and electrical equipment.
- ★ The burn-through voltage is automatically adjusted down as the insulation resistance decreases.
 - ★ Multiple safety protection functions, such as automatic shutdown of burn-through, automatic protection of overload, automatic alarm of high temperature.
 - ★ It adopts switching power supply technology. And it is with ultra-audio full-bridge inverter, voltage rectification, small ripple coefficient, no noise.
 - ★ 5.6-inch color LCD screen, which can clearly display the real-time change curve of voltage and current during the burning process.
 - ★ It can be used in highlands, low pressure and humid environments.
 - ★ Maximum output voltage: 60kV
 - ★ Maximum output current: 600mA
 - ★ Continuous power: 1000W
 - ★ Display error: <±1.5%



RDCD-510G Series Cable Fault Simulation System

- It is mainly used to train power cable inspectors in various industries. It can simulate all faults of various types of power cables, such as: open circuit, short circuit, high resistance, low resistance, flashover and leakage joints etc.
- System functions:
- ★ Both near-end and far-end low-impedance fault waveforms can be simulated.
 - ★ Both near-end and far-end short-circuit fault waveforms can be simulated.
 - ★ The near fault and open fault waveforms can be simulated.
 - ★ Leakage high-impedance fault waveforms at the near and far ends can be simulated.
 - ★ High-impedance fault waveforms with flashover at the near and far ends can be simulated.
 - ★ The waveform of the middle pair joint and the T-type and X-type joints can be simulated.
- System parameters:
- ★ The number of simulated fault waveforms is 5-40.
 - ★ The near-end fault is tens of meters; and the far-end fault is hundreds of meters.
 - ★ Resistance fault simulator: 0 ohms ~ 100 ohms
 - ★ Open Circuit Fault Simulator: G ohm ~ Infinity
 - ★ Leakage high-resistance fault simulator: k ohm level ~ hundred M ohm level
 - ★ Flashover circuit high resistance fault simulator: several kV ~ tens of kV

The specific simulation can be customized to the user's requirements.

POWER CABLE TESTING EQUIPMENT

SOLUTION AND SELECTION GUIDE





RDCD-II/502Z Cable Fault Pre-locator

- ★ 12.1-inch industrial-grade computer control, touch screen operation mode;
- ★ Windows operating system, super powerful cable management system, automatic generation of test reports;
- ★ With distance and speed measurement and other functions;
- ★ Data sampling rate: 60MHz, 120MHz, 240MHz;
- ★ Fully automatic and continuous sampling, never miss any discharge waveform;
- ★ Testing method: low-voltage pulse method, high-voltage flashover method;
- ★ Pulse amplitude: 400Vpp
- ★ Pulse width: 0.1μs and 2μs
- ★ Measuring distance: 64km
- ★ Reading resolution: 0.1m
- ★ The system test accuracy is less than 0.5m
- ★ With massive storage function for the test waveform: the waveforms tested in the field can be conveniently stored in the instrument in a specified order for reference and observation at any time.
- ★ Built-in polymer lithium battery power supply: can work continuously for more than 4 hours after full charge. Fully meets field testing requirements. It can also be connected to an external AC power supply.



RDCD-II/502 Cable Fault Pre-locator (Multiple pulse)

- ★ Test methods: multiple pulse method, induction sampling method, flashover sampling method, low-voltage pulse method
- ★ Sampling delay: 1-9X
- ★ Measuring distance: ≤60km; Resolution: 0.5m
- ★ Low-voltage pulse: Amplitude: 400Vp-p; Width: adaptive
- ★ Display operation: 12.1-inch industrial control all-in-one touch screen
- ★ Communication platform: Windows operating platform; USB3.0 communication
- ★ Built-in power supply: can work continuously for 10 hours, can also be connected to AC power supply.
- ★ Working conditions: Temperature: -25℃~+65℃; Relative humidity: 90%RH
- ★ Coupler rated voltage: 40kV

High-voltage Pulse Generator

The high-voltage pulse generator is mainly used to quickly detect cable faults of 35kV and below. It integrates high-voltage power supply, pulse energy storage capacitor, discharge ball gap and sampler. Simple wiring, easy to operate, safe and reliable. It has functions such as overcurrent, overvoltage and overheating. It is with zero start protection, high voltage side measurement, real-time display of residual voltage. The meter displays the current and voltage pointer in real time which is intuitive and reliable.

RDCD-II/535T

Cable Test High-voltage Signal Generator (Aart / trolley)

- ★ Voltage: 8/16/32kV three stage
- ★ Capacitance: 4/16/64 μF three stage
- ★ Power: Impact 2000 W
- ★ Discharge: 2048 J
- ★ Method: Periodic /single/DC
- ★ Size: 520*360*950 (mm)
- ★ Weight: 98kg



RDCD-II/5158L

Cable Test High-voltage Signal Generator (Pull rod box)

- ★ Voltage: 0~35kV
- ★ Built-in large capacitance: 2 μF
- ★ Voltage accuracy: 1.5 grade
- ★ Discharge energy: 1250 J
- ★ Size: 520L*300W*390H (mm)
- ★ Weight: ≤ 20kg
- ★ Power supply: AC 220V ± 10%; 50Hz ± 2Hz



RDCD-II/5354Z

Cable Test High-voltage Signal Generator (All-in-one)

- ★ Voltage: 15/35kV
- ★ Capacitance: 8/4 μF
- ★ Power: Impact 400 W
- ★ Discharge 900/2450 J
- ★ Method: Periodic/Single/DC
- ★ Size: 420*320*480 (mm)
- ★ Weight: 30/35kg



RDCD-II/503B Cable Fault Pinpoint Locator (Intelligent)

- It adopts the acousto-magnetic synchronization method to determine the precise location of the cable fault. Acoustic wave and magnetic wave are both displayed. The background noise reduction technology and active filter circuit are adopted.
- ★ The acousto-magnetic delay value is directly displayed by intelligent algorithms to reduce the demands on testers.
 - ★ The filtering parameters are adjustable which can suppress environmental noise for complex environments.
 - ★ The automatic gain value and trigger value of the acoustic signal and magnetic signal makes the point fixing easy and convenient.
 - ★ High-performance anti-noise monitoring headphones ensure that the discharge sound is not distorted.
 - ★ Fixed-point accuracy: 0. 1m
 - ★ Bandwidth: 300-1500Hz arbitrarily adjustable
 - ★ Signal gain: 80dB
 - ★ Power supply: built-in 3400mAh lithium-ion battery
 - ★ Display: 5-inch color LCD touch screen.
 - ★ Size: Main unit: 200* 195*120 (mm)
 - ★ Weight: Main unit 2.0kg; Sensor 2. 5kg
 - ★ Operating conditions: Temperature: 20℃-40℃; Humidity 90%RH



RDCD-II/503D Cable Fault Pinpoint Locator (Multifunction)

- Acousto-magnetic synchronization method, electromagnetic induction method and step voltage method are used to detect cable paths and fault locations.
- ★ It has the versatility of precise point determination, path detection and step voltage point fixing.
 - ★ The acoustic-magnetic delay value is displayed directly by an intelligent algorithm, and the compass indicates the cable path.
 - ★ The filtering parameters are adjustable. It can suppress environmental noise and is suitable for complex environments.
 - ★ The automatic gain value and trigger value of the acoustic signal and magnetic signal makes the point fixing easy and convenient.
 - ★ High-performance anti-noise monitoring headphones ensure that the discharge sound is not distorted.
 - ★ Fixed-point accuracy: 0. 1m
 - ★ Bandwidth: 300-1500Hz arbitrarily adjustable
 - ★ Signal gain: >80dB
 - ★ Power supply: built-in 3400mAh lithium-ion battery
 - ★ Display: 7-inch color LCD touch screen
 - ★ Operation: Touch and key dual operation
 - ★ Size: Main unit 252*160 *68 (mm)
 - ★ Weight: Main unit 2. 1kg; Sensor 2. 5kg
 - ★ Operating conditions: Temperature: 25℃-40℃; Humidity 90%RH



RDCD-523W Cable Outer Sheath Fault Locator

- It adopts the step voltage method and clamp current method and is mainly used for the accurate location of the outer sheath fault of single-core cable and the precise location of ground fault of wire and cable without armor.
- ★ Two measurement methods meet all measurement sites.
 - ★ The voltage and frequency are adjustable, and the anti-interference ability is strong.
 - ★ With over-current, over-voltage and zero protection; safe and reliable
 - ★ Output voltage: 0-10kV
 - ★ Frequency regulation: 0.2 -5Hz
 - ★ Output current: 0-200mA
 - ★ Output capacity: 2kVA
 - ★ Operating voltage: AC 220V (1±10%), 50Hz (1±5%)



RDCD-521W Cable Outer Sheath Fault Tester

- Designed based on the MURRAY bridge principle, it can be used for the measurement of insulation defect points in wires and cables of various voltage levels. It is especially suitable for rough testing of outer sheath failures.
- ★ Manual voltage boost, manual adjustment of bridge balance
 - ★ No-load voltage: 0 7.5/10kV optional
 - ★ Short circuit current: 40mA
 - ★ Measurement accuracy: ± (0.2%*L±1) meters
 - ★ Weight: 5.5kg
 - ★ Power supply: AC 220V±10%, 50Hz ±1Hz



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