



PRODUCT FUNCTION

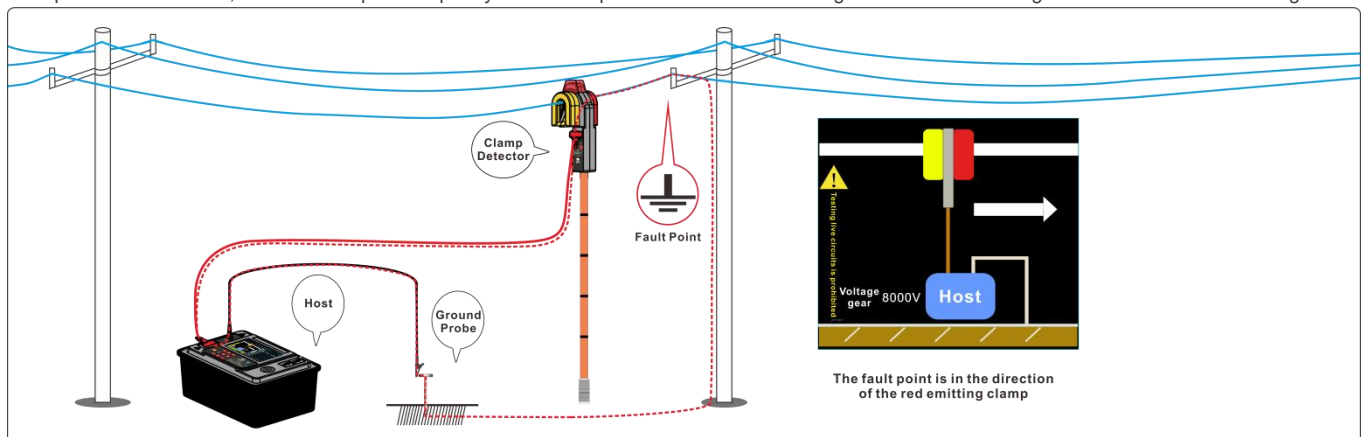
- Application for inspecting single-phase grounding faults on overhead high-voltage lines, accurately locating the grounding fault point. Accurately identifies hidden grounding faults on overhead lines, such as single-phase metallic grounding, arc grounding, transition resistance grounding, porcelain insulator breakdown, and surge arrester breakdown.

PRODUCT FEATURES

- Innovative integrated clamp detector combines signal transmission and acquisition in one unit. Clamp-shaped structure allows for easy installation, enabling a single installation to complete line fault testing. There's no need to operate the output and acquisition signals from two separate locations, nor is it necessary to disconnect the PT. Testing is convenient and fast, reducing the number of operators and improving work efficiency.
- The clamp detector equipped with the non-contact electroSCOPE, when the tested circuit line is found to be live and issue audible and visual alarm, the host will broadcast voice prompts at the same time to ensure the safety of operators and equipment.
- Especially suitable for the faulty lines with cable branches. With strong short-circuit detection capability, which can detect the direct short-circuit fault of the ground resistance is 0Ω .
- Output voltage up to 8000V, there are 8000V and 3000V two gears to meet the different request of users.
- Equip with Large-capacity rechargeable battery which can complete the detection of the entire circuit line after being fully charge.
- Fast detection speed, will get test result within a few seconds after installation.
- The 7-inch colorful screen provides clear and obvious fault indication.
- Voice broadcasting function, indicate the direction of the fault.
- With Bluetooth communication function, the communication distance up to 40m. After downloading the APP, can test and view the test results on mobile phone, and use it as a handheld receiver.

TEST PRINCIPLE

- After the overhead line network is stopped, the host output low frequency and high voltage signals, and the AC voltage signals are applied to the line through the transmitting clamps on the left and right sides of the clamp detector. The highly sensitive current transformer in the middle of the clamp detector detects the current amplitude and phase on both sides. The current passes through the host and the clamp detector, flows through the fault line, enter to the ground at the grounding fault point, and return to the host through the ground pin.
- The instrument output high-voltage AC signal. The distributed capacitance and fault ground resistance form an RC parallel circuit. By detecting the voltage and current signals on both sides of the line and the phase between the voltage and current, it can be judged whether the present load is capacitive or inductive, and then compare the purely resistive impedances on the left and right to determine if the ground fault is on the left or right side.



Guangdong ETCR Electronic Technology Co.,Ltd

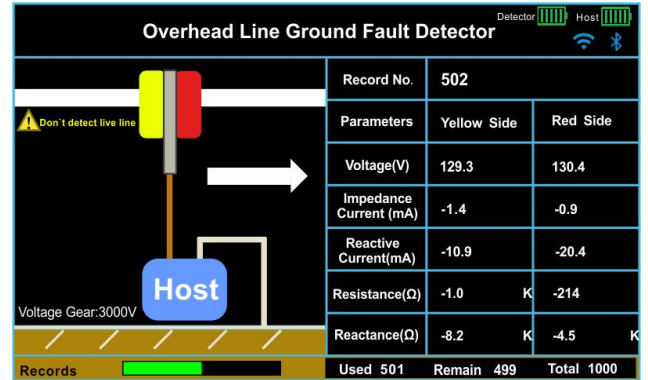
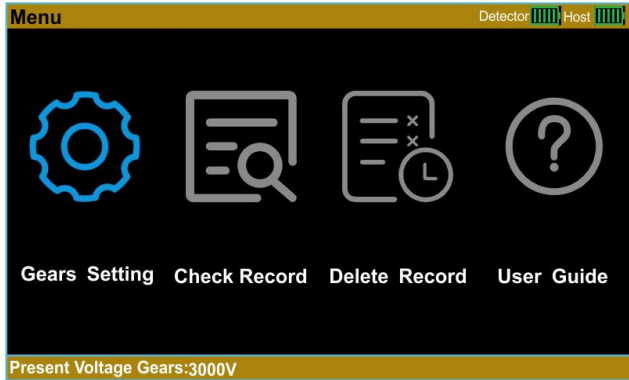
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Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery.
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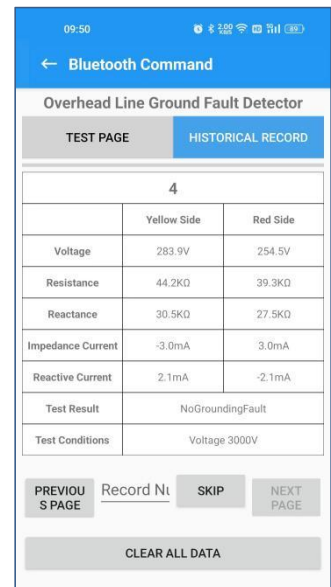
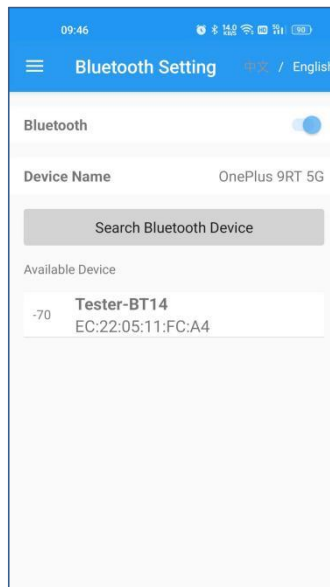
HOST TEST INTERFACE

- 7-inch color screen, which can display clearly: fault indication direction, field test parameters, historical test records, battery power, communication status, operation methods.



BLUETOOTH INTERFACE

- Equip with Bluetooth communication function which supports Android system. After scanning the QR code to install the APP program, can test and view the test results on the mobile phone, which is very convenient for using on-site.



TECHNICAL SPECIFICATION



Power Supply	Host: 14.8V, 5200mAh rechargeable lithium battery; Clamp Detector: 3.7V, 2600mAh rechargeable lithium battery
LCD Displayer	7-inch colorful screen, size: 153.8mm x 85.6mm
Detection Method	Clamp type CT
Output Voltage	AC 3000V/8000V
Output Current	≤ 50mA
Grounding Fault Resistance	≤ 150kΩ
Line Reactance	≤ 150MΩ
Output Frequency	50Hz
Clamp Jaw Size	Φ 36mm
Electricity Testing Alarm	Detect the tested cable is lived or not and sound audible and visual alarm
Wireless Communication Distance	433MHz, 50m (open environment)

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ETCR METER[®]

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Bluetooth Communication Distance	40m (open environment)
Data Upload	The host equipped with USB interface for uploading test data
Automatic Shutdown	15minutes without any operation after starting up, will automatic shutdown
Voice Broadcast	Yes
Battery Power	Display the battery capacity of the host and the detector
Detector Weight	Approx. 17.4kgs (include insulation rod)
Detector Dimension	Host: 355mm x 272mm x 164mm Clamp Detector: 297mm x 118mm x 94mm
Working Temperature & Humidity	Temperature: - 20℃ ~ 70℃, Humidity: 5 ~ 90 % RH
Insulation Rod Length	Approx. 4300mm
Accessories	Host*1PC Clamp detector*1PC High voltage test line*1PC Ground line*1PC Ground Pin*1PC Communication cable*1PC Charger*2SETS Instrument case*1PC Insulation rod *1PC Tool bag*1SET

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