

Double Clamp Earth Resistance Tester PRO ERT-1635

PRODUCT INTRODUCTION

The Metravi ERT-1635 Double Clamp Multi-function Earth and Grounding Resistance Tester is specially designed and manufactured for on-site measurement of grounding resistance, soil resistivity, grounding voltage, grounding line leakage current, AC current and DC resistance. Applying digital processing technology, it offers precision 4-wire method, 3-wire method and simple 2-wire method, selection method, double-clamp method to measure grounding resistance.

The large caliber clamp design can measure the grounding system using large grounding down lead and can flexibly and accurately measure any grounding resistance value of various complex grounding conditions such as single point and mesh grounding. It is not required to disconnect any parallel grounding pole to do the measurements. Import FFT (Fast Fourier Transform) technology, AFC (Automatic Frequency Control) technology, with unique anti-interference ability and environmental adaptability, high repeated test consistency, ensures high precision, high stability and high reliability for long-term measurements.

Widely used in power, telecommunications, meteorology, oil fields, construction, lightning protection and industrial electrical equipment, such as grounding resistance, soil resistivity, grounding voltage, alternating current, leakage current measurement.



PRODUCT FEATURES

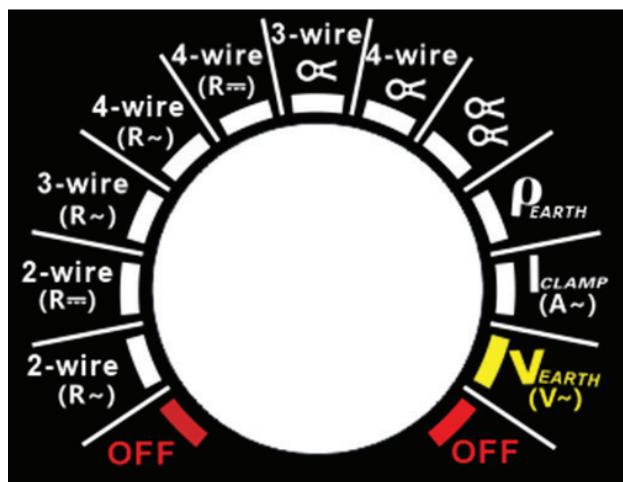
- Import FFT (Fast Fourier Transform Algorithm) and AFC (Automatic Frequency Control) technology. With unique anti-jamming capability and environmental adaptability and high consistency of retest.
- Uniquely designed plug receptacle indicator, accurately indicating its location, making operation convenient. With the function selection knob, all test methods display clearly, making operations simple and fast.
- The tester case has a waterproof protection box, and is anti-collision, anti-drop, waterproof (protection grade IP65), strong and durable, and also equipped with a large-capacity rechargeable lithium battery pack especially suitable for outdoor construction.
- Large LCD display with white back-light and bar graph.
- Features functions like alarm, overload protection, automatic shutdown and also data storage, data access and data upload via USB interface function.
- Supports Bluetooth communication with Android devices. Free App through which mobile can be used to check testing operations and view records.



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MEASUREMENT GEARS


| Knob Gears | Function | Knob Gears | Function |
|--------------------|--|-------------------------------|--|
| OFF | Shutdown | 3-wire | 3-wire selection method measure earth resistance |
| 2-wire (R~) | 2-wire method measure earth resistance | 4-wire | 4-wire selection method measure earth resistance |
| 2-wire (R=) | 2-wire method measure DC resistance | RR | Double clamp method measure earth resistance |
| 3-wire (R~) | 3-wire method measure earth resistance | ρ_{EARTH} | Wenner Method measure soil resistivity |
| 4-wire (R~) | 4-wire method measure earth resistance | I_{CLAMP} (A~) | Grounding interference current |
| 4-wire (R=) | 4-wire method measure DC resistance | V_{EARTH} (V~) | Grounding interference voltage |



TECHNICAL SPECIFICATION

| | | | |
|---|---|---------------------|-------------------------|
| Power Supply | DC7.4V 2600mAh rechargeable lithium battery | | |
| 2/3/4-wire Method Measure Earth Resistance | Range : 0.00Ω ~ 30KΩ | Resolution : 0.01Ω | Accuracy : ±2%rdg±3dgt |
| Selection Method Measure Earth Resistance | Range : 0.00Ω ~ 3000Ω | Resolution : 0.01Ω | Accuracy : ±2%rdg±3dgt |
| Double Clamp Method Measure Earth Resistance | Range : 0.00Ω ~ 100Ω | Resolution : 0.01Ω | Accuracy : ±10%rdg±5dgt |
| Earth Voltage Measurement | Range : 0.0 ~ 100.0V AC | Resolution : 0.1V | Accuracy : ±2%rdg±3dgt |
| Earth Current Measurement | Range : 0.0mA ~ 600.0A | Resolution : 0.0mA | Accuracy : ±2%rdg±3dgt |
| Soil Resistivity Measurement (ρ) | Range : 0.00Ωm ~ 9000KΩm | Resolution : 0.01Ωm | |
| CT Size | φ70mm | | |
| Short-circuit Test Current | AC 250mA max | | |
| Open-circuit Test Current | AC 40V max | | |
| Test Frequency | 128Hz / 111Hz / 105Hz / 94Hz (AFC) | | |
| Data Storage | 2000 groups | | |
| Automatic Shutdown | 15 Minutes after power on, will automatic shut down without any operation | | |
| LCD Dimension | LCDFrame Dimension : 128mm×75mm; LCD Display Dimension : 124mm×67mm | | |
| Tester Dimension | 280mm (L) × 260mm (W) × 160mm (H) | | |
| Total Weight | 6700g (include package) | | |
| Working Current | Standby: around 25mA (Backlight close); Measurement : 100mA (Backlight close) | | |
| Test Wires | Red 20m, black 20m, yellow 10m, green 10m, red 1.6m, black 1.6m (total 6 pcs wires) | | |

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|--------------------------------|--|
| Auxiliary Ground Rod | 4pcs : $\phi 10\text{mm} \times 150\text{mm}$ |
| USB Interface | With USB interface, software monitoring, storage data can be uploaded to computer, saved and printed. |
| Bluetooth Communication | Support the bluetooth communication function of Android system, after installation the APP, mobile terminals can be used to testing operations and view test records. |
| Alarm Function | Measure value exceed alarm setting value, will "Toot-toot-toot" alarm indication |
| Battery Voltage | While battery voltage decreases to around DC $7.2\text{V} \pm 0.1\text{V}$, will display low battery voltage symbol "  ", and remind to replace the battery. |
| Accessories | Tester : 1PC; Current Clamp Sensor : 2PCS; Ground Rod : 4PCS; Testing wires : 6PCS; USB Communication Cable : 1PCS; Special Charger : 1PCS; Tester Bag : 1PCS |

