

## RTCR3000 Digital Ground Resistance Tester



### Product Function

Precise 3-wire, simple 2-wire measurement of earth resistance, earth voltage and low resistance.

### Product Features

1. With a unique function of wire resistance verification, anti-interference capability and the ability to adapt to the environment, to ensure high precision, high stability and reliability for prolonged measure.
2. The large LCD display of host machine is with white backlight and bar graph indicating that can be seen clearly.
3. Alarm function.
4. Data memory: 400 sets. Data upload with RS232.

### Technical Specification

Model	RTCR3000 Digital Earth Resistance Tester
Earth Resistance	Range:0.01Ω~2000Ω; Resolution:0.01Ω; Accuracy:±2%rdg±3dgt
Earth Voltage	Range:0V~600V AC; Resolution:1V; Accuracy:±2%rdg±3dgt
Power Supply	DC 9V (Alkaline dry battery LR14 1.5V 6 PCS, continuous standby for 300 hours)
Tester Dimension	LWH:215mm×190mm×95mm
Weight	1443g(with batteries)
Measuring Method	Earth ground resistance: constant current change-pole method, measurement current 3mA Max,820Hz; Voltage to ground: average value rectification
Measuring Times	Over 5000 times (20Ω range measuring 10Ω for one time and repeat after 25 seconds)
Measuring Rate	Earth voltage measurement: 3 times/second; Earth resistance: 5 seconds/time
Data Storage	400 sets, flash display "FULL" icon to indicate storage is full
Data Hold	Data hold function: "HOLD" icon display
Data Read	Data read function: "READ" icon display
Overflow Display	Exceeding measuring range overflow function: "OL" icon display
Circuit Voltage	Measuring voltage to ground: measuring below AC 600V
Auxiliary Earthing Rod	2 PCS: Φ10mm×150mm
Testing Wires	Five wires: each for Red 20m, yellow 10m, green 5m, red 1.6m, green 1.6m
RS232 Interface	Possess RS232 interface, software supervision, storage data can be uploaded to computer, preserved and printed
Wire Resistance Verification	Avoid error caused by testing wire such as failed to be fully inserted into tester interface or by poor contact or by user's replacing or lengthening testing wires, making it more accurate for earth ground resistance measurement
Alarm Function	When measuring value exceeds alarm setting value, there is "Toot-toot-toot" alarm hint
Auto Power-off	15 Minutes after power on, it will power off automatically to lower the power consumption
Battery Voltage	When battery voltage decreases to about 7.8V, battery voltage low icon will display, reminding to replace battery
Overload Protection	Measuring earth ground resistance: between each interfaces of E-P-E-C, AC 280V/3 seconds
Electromagnetic Features	IEC61010-4-3,Wireless frequency electromagnetic field ≤ 1V/m
Power Consumption	Backlight:25mA Max; Standby: 25mA Max(Backlight shut off);Measurement:70mA Max(Backlight shut off)
Accessories	Tester:1PC; Earthing Rod:2PCS; Testing Wire:3PCS; Simple testing wire:2PCS; RS232 Com-cable:1PCS; Software disk:1PC; Tester bag:1PC