

## Digital Earth Resistance Tester

### RD3001E & RD3002E



**RD3001E**



**RD3002E**

**Digital Earth Resistance Tester** specially designed and manufactured for the field measurement of ground resistance, adopts digital and micro-processing technology 3 wire or 2 wire method to measure ground resistance, with unique calibration function for wire resistance, anti-interference ability and environmental adaptability, to ensure the long-term measurement of high precision, high stability and reliability. This Digital Earth Resistance Tester has the unique function of wire resistance calibration, and it is more accurate to measure the low value ground resistance in the field, which can avoid the error caused by the change of wire resistance in the test line for a long time usage. It can avoid errors caused by incomplete insertion of test line into instrument interface or bad contact. It can avoid the error caused by the user to change or lengthen the test line.






### Product features

1. The fuselage is light, easy to carry and operate.
2. With unique calibration function for wire resistance, anti-interference ability and environmental adaptability.
3. With high precision, high stability and reliability
4. Earth voltage measurement.



## Product specifications and technical parameters

### 1. Technical Parameters

Picture		
Model	<b>RD3001E</b>	<b>RD3002E</b>
Function	Description	
Power Supply	DC9V, R6 AA dry battery 6PCS	
Display LCD	LCD:58mmX46mm	
Tester Dimension	160mm(L)×100mm(W)×66mm(H)	
Weight	Host: about 800g, total weight: about 2285g (include accessories)	
Measurement Method	Earth resistance: rated current change-pole method, measure current 20mA Max; Voltage to earth: average value rectification	
Measurement Time	Earth resistance: 15 seconds/time; Voltage to earth: 2 times/second;	
Overrange Display	Overrange overflow function: display" OL" symbol	
Auxiliary Ground Rod	2 PCS: Φ10mm×250mm	
Test Wires	Red 15m, yellow 10m, green 5m, red 1.5m (total 4 pcs wires)	
Wire Resistance Verification	Avoid errors caused by the test line not fully inserted into the instrument interface or poor contact or the user replaces the lengthened test line, ensure grounding resistance measurement more accurate	
Auto Shutdown	3 Minutes after power on, will automatic shutdown without any operation.	
Battery Voltage	While battery voltage decreases to around 7.2V, will display low battery voltage symbol“  ”, and remind to replace the battery.	
Overload Protection	Earth resistance: between each interface of E-P, E-C, AC 280V/3 seconds	
Data Access	Data access function: display "READ" symbol	
Electromagnetic Property	IEC61010-4-3, wireless frequency electromagnetic field≤1V/m	
Safety Standard	IEC61010-1、IEC1010-2-31、IEC61557-1、Pollution degree 2、CAT III 300V	

Working Current	Backlight: 56mA Max; Standby: 20mA Max (Backlight close); Measurement: 200mA Max (Backlight close)
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## 2. Measurement Range & Accuracy

Model	Test Function	Range	Accuracy	Resolution
<b>RD3001E</b> <b>RD3002E</b>	Earth Resistance	0.01Ω ~ 20Ω	±2%rdg±3dgt (Auxiliary earth resistance 100Ω±5%, voltage to earth<10V)	0.01Ω
		0.1Ω ~ 200Ω		0.1Ω
		1Ω ~ 2000Ω		1Ω
	Earth Voltage	0V~200V AC	±2%rdg±3dgt	1V
<b>RD3001E</b>	Earth Current	0mA~100A AC	±2%rdg±3dgt	1mA



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