RDER2100C+ Multi-Function Clamp Earth Resistance Tester

RDER2100C+ Multi-Function Clamp Earth Resistance Tester is widely used in the grounding resistance measurement of the power, telecommunications, meteorology, oilfield, construction and the industrial and electrical equipment. In the measurement of a grounding system with loop, does not require breaking down the grounding down lead, and no need the auxiliary electrode. It is safe, fast and simple in use. The tester can



measure ground faults which cannot be measured by traditional methods. It can be used in applications where traditional methods cannot be measured, because the RDER series clamp grounding resistance meter measures the combined value of grounding body resistance and grounding lead resistance. The equipment can also measure the leakage current and neutral current of the grounding system.

Product features

- 1. Self-test quickly, start immediately into the test.
- 2. Using the most advanced processing algorithms and digital integration technology.
- 3. The product is light weight, more in line with characteristics of hand-held devices.
- 4. New design, panel operation with 6 buttons, better performance.
- 5. Increase sound and light alarm function, with "beep-beep-beep" alarm sound.
- 6. Increase the interference signal recognition indicator function, with "beep-beep" indicator.
- 7. Measurement range: resistance $0.01\Omega \sim 1200\Omega$, current 0.00mA ~ 20.0 A.
- Stored data 99 Units. Lower power consumption, Maximum operating current less than 50mA.

Product specifications and technical parameters

Measurement	Range	Resolution	Accuracy
Resistance	$0.010\Omega \sim 0.099\Omega$	0.001Ω	\pm (1%rdg+0.01 Ω)
	$0.10\Omega \sim 0.99\Omega$	0.01Ω	\pm (1%rdg+0.01 Ω)
	$1.0\Omega \sim 49.9\Omega$	0.1Ω	\pm (1%rdg+0.1 Ω)
	$50.0\Omega \sim 99.5\Omega$	0.5Ω	\pm (2%rdg+0.5 Ω)

1. Measurement Range & Accuracy

Website: www.wrindu.com

	$100\Omega \sim 199\Omega$	1Ω	$\pm(3\% rdg+1\Omega)$
	$200\Omega\sim$ 395 Ω	5 Ω	\pm (6%rdg+5 Ω)
	$400\Omega\sim$ 590 Ω	10 Ω	$\pm(10\%$ rdg $\pm10\Omega)$
	$600\Omega{\sim}880\Omega$	20 Ω	\pm (20%rdg+20 Ω)
	$900\Omega\sim 1200\Omega$	30 Ω	\pm (25%rdg+30 Ω)
Current	0.00mA~9.95mA	0.05mA	\pm (2.5%rdg \pm 1mA)
	10.0mA~99.0mA	0.1mA	\pm (2.5%rdg \pm 5mA)
	100mA~299mA	1mA	$\pm (2.5\% rdg \pm 10 mA)$
	0.30A~2.99A	0.01A	$\pm (2.5\% rdg \pm 0.1A)$
	3.0A~9.9A	0.1 A	$\pm (2.5\% rdg \pm 0.3A)$
	10.0A~19.9A	0.1 A	$\pm (2.5\% rdg \pm 0.5A)$

2. Technical Parameters

Function	Description	
Power Supply	6VDC 4 PCS LR6 lkaline batteries	
Clamp Size	Ф32mm	
LCD Size	4 Digits LCD display, Screen: 47mm×28.5mm	
Range	Resistance 0.01 Ω -1200 Ω , current 0.00mA \sim 20.0A.	
Resolution	Resistance 0.001Ω , current 0.05 mA	
Accuracy	Resistance $\pm 1\% \pm 0.01\Omega$, current $\pm 2.5\%$ rdg ± 1 mA	
Data Storage	99 sets	
Data Upload Function	RS232 Interface (Optional)	
Auto Shutdown	Automatically power off after 5 minutes without any operate	
Power Consumption	≤50mA, Continuously working for 30 hours	
Working Environment	-20°C~55°C 20%~80%RH	
Store Environment	-20°C~60°C; below 90%RH	
Alarm Threshold Setting Range	Resistance: $1 \sim 199\Omega$, current $1 \sim 499$ mA.	
Audible and VisibleAlarm	"Beep-beep-beep" alarm sound, alarm symbol flashing,	
	pressALkey to turn on/off and setting	
Interference Signal Recognition	"Beep-beep" indicator, NOISE symbol blinking	
Protection Level	Double insulation	
Structural Feature	Clamp CT	
Shift	Automatic shift	
External Magnetic Field	<40A/m	
External Electrical Field	<1V/m	
Single Measurement Time	0.5 second	
Resistance Measurement	>1KHz	
Frequency		
Measured Current Frequency	50/60Hz Automatic	
Low Battery Voltage Indicator	When the battery voltage is lower than 5.3V, the low battery voltage symbol is displayed	

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Storage Full Indication	Storage data full of 99 sets, flashed display "MEM" symbol
Over Range Indication	Exceed range indication "OLΩ", "L0.01" or "OL A"
Tester Weight	1160g
Tester Dimension	285mm×85mm×56mm