

## RDWR-5A Ground Grid Tester

**RDWR-5A Ground Grid Tester** is a special instrument for measuring grounding resistance of grounding grid and grounding conduction between grounding points. Using frequency conversion anti-interference technology, it does not need large current measurement, and can measure accurate data of 50 Hz in strong interference environment of substation.



The measurement results are displayed by large screen LCD and can be printed out by its own micro printer. It simplifies the test operation process, improves the accuracy and accuracy of the test results, and greatly reduces the labor intensity and test cost of the test personnel. The Ground Grid Tester can measure the grounding impedance and resistance at the same time, which can reflect the actual characteristics of the grounding grid.




### Product features

1. The measured power frequency equivalence is good. The test current waveform is sine wave, and the difference between frequency and power frequency is 0.1Hz at least and 10Hz at most. It can be used to measure the frequency of 50 Hz or 60 Hz.
2. Strong anti-interference ability. The instrument adopts the method of different frequency measurement, combined with modern software and hardware filtering technology, so that the instrument has high anti-interference performance, and the test data is stable and reliable.
3. High measurement accuracy. The basic error is only 0.005  $\Omega$ , which can be used to measure the earth network with small grounding impedance.
4. Powerful function. It can measure current pile, voltage pile, grounding grid impedance, grounding resistance, grounding conduction, soil resistivity, etc.

5. Full touch liquid crystal display, super large full graphic operation interface, each process is very clear. The operator can use it without additional professional training. You can test the whole process with a little touch.
6. It is equipped with calendar chip and large capacity memory, which can save the results at any time. The history can be viewed at any time and printed out. The current time and storage time can be displayed and printed.
7. Scientific and advanced data management: instrument data can be exported through U disk and can be viewed and managed on any PC through special software. Able to generate reports and test reports.
8. Safe and reliable. The instrument has grounding protection, current and voltage limiting protection, sound and light alarm and other functions to ensure the safety of test personnel and equipment.
9. With vector test function, it can measure the impedance and pure resistance of grounding grid and can measure the impedance angle.
10. Less wiring labor, no need for high current wire.
11. Integrated type, with standard resistance and constant current source, convenient for field test and less field wiring.
12. The instrument is easy to operate, and the measurement process is controlled by microprocessor. As long as the appropriate measurement method is selected, the data measurement can be completed automatically under the control of microprocessor.



## Product specifications and technical parameters

Picture		
Model	<b>RDWR-5A</b>	
No.	Parameter	Value
1	Measurement Range	0 ~ 5000Ω (including current pile impedance)
2	Resolution	0.001mΩ
3	Measurement Error	±(reading×2% + 0.005Ω)
4	Anti-power Frequency 50 Hz Voltage Interference Ability	10V
5	Test Current Waveform	Sine Wave
6	Test Current Frequency	
	Single Frequency	40-70Hz (resolution: 0.1Hz, settable)
	Dual Frequency	50±0.1Hz to 50±10.0Hz (settable)
		60±0.1Hz to 60±10.0Hz (settable)
7	Output Current	5A (can reach 30A using external power supply)
8	Output Voltage	400V (can reach 1000V using external power supply)
9	Measuring Line Requirements	Cross-sectional area of copper core of current line $\geq 1.5\text{mm}^2$ Sectional area of copper core of voltage wire $\geq 1.0\text{mm}^2$ The Measuring line to be provided by the user
10	Test Power Supply	Built-in 2kW variable frequency power supply
11	Power Supply	AC220V±10%, 50Hz



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