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› FUZRR FR2000A+ Clamp Earth Resistance Tester User Manual

FUZRR GT-FR2000A+

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Model: GT-FR2000A+

1. PRODUCT OVERVIEW

The FUZRR FR2000A+ is a utility-type clamp earth resistance tester designed for measuring ground resistance. This device offers a resistance resolution of 0.001Ω and is capable of storing up to 300 groups of measurement data.

Key features include:

- Resistance Measurement Range: 0.01Ω to 200Ω
- Resistance Resolution: 0.001Ω
- Current Measurement: Not applicable for FR2000A+ model
- Measurement Method: Mutual inductance
- Data Storage: 300 groups (indicated by "MEM" symbol; "FULL" symbol when storage is full)
- Measurement Rate: 2 times/second
- Automatic shutdown after five minutes of inactivity.



CLAMP GROUNDING RESISTANCE TESTER

- Range of resistance:
0-1200Ω
- Range of current:
0-20A



BRAND NEW BLACK SCREEN DESIGN

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Figure 1: FUZRR Clamp Earth Resistance Tester. This image illustrates the device's primary function as a clamp grounding resistance tester, highlighting its resistance range of 0-1200Ω and current range of 0-20A (note: current function is not available on FR2000A+ model, and its resistance range is 0.01Ω-200Ω).

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always wear appropriate personal protective equipment (PPE) when performing electrical measurements.
- Do not use the device if it appears damaged or is operating abnormally.
- Ensure the measurement circuit is de-energized before connecting or disconnecting the clamp, if applicable.
- Do not exceed the maximum input ratings specified for the device.
- Keep the device dry and clean. Avoid exposure to moisture, dust, and extreme temperatures.
- Only qualified personnel should perform electrical measurements.

3. PRODUCT COMPONENTS

The FUZZR FR2000A+ package typically includes:

- GT-FR2000A+ Clamp Earth Resistance Tester unit
- User Manual
- Carrying Case
- Calibration Loop (if applicable)



Figure 2: Contents of the FR2000+ series package, including the clamp tester, user manual, and carrying case. Note that the image shows the FR2000+ model, which is similar in appearance to the FR2000A+.

4. SETUP AND PREPARATION

Before using the FR2000A+ tester, ensure the following steps are completed:

1. **Unpacking:** Carefully remove the tester and all accessories from the carrying case. Inspect for any visible damage.
2. **Battery Installation:** Open the battery compartment (usually located at the rear of the device) and insert the required batteries, observing correct polarity.
3. **Power On:** Press the power button to turn on the device. The display should illuminate.
4. **Self-Test:** The device may perform a brief self-test upon startup. Wait for it to complete before proceeding.
5. **Calibration Check (Optional):** If a calibration loop is provided, perform a quick check to ensure the device is reading correctly. Refer to the specific instructions in the included manual for this procedure.

5. OPERATING INSTRUCTIONS

The FR2000A+ is designed for convenient earth resistance measurements using the clamp method. This method allows for measurements without disconnecting the ground system.

5.1. Measuring Earth Resistance

1. **Identify Measurement Point:** Select the grounding conductor or earth electrode to be measured.
2. **Open Clamp:** Press the clamp trigger to open the jaws of the tester.
3. **Enclose Conductor:** Carefully place the jaws around the grounding conductor, ensuring the conductor is centered within the clamp and the jaws are fully closed.
4. **Read Measurement:** The resistance value will be displayed on the screen. Allow a few seconds for the reading to stabilize.
5. **Data Hold:** Press the "HOLD" button (if available) to freeze the current reading on the display. Press again to release.
6. **Data Storage:** To save a measurement, press the "MEM" button. The device will indicate successful storage. Refer to the device's specific manual for navigating stored data.



Figure 3: The FR2000A+ clamp earth resistance tester in use, measuring resistance by clamping around a grounding wire.

5.2. Understanding Multi-Point Grounding Systems

The clamp-on method is particularly useful for multi-point grounding systems, where disconnecting the ground is impractical or unsafe. The tester measures the resistance of the loop formed by the clamped electrode and all other parallel ground electrodes.

Multi-Point Grounding System

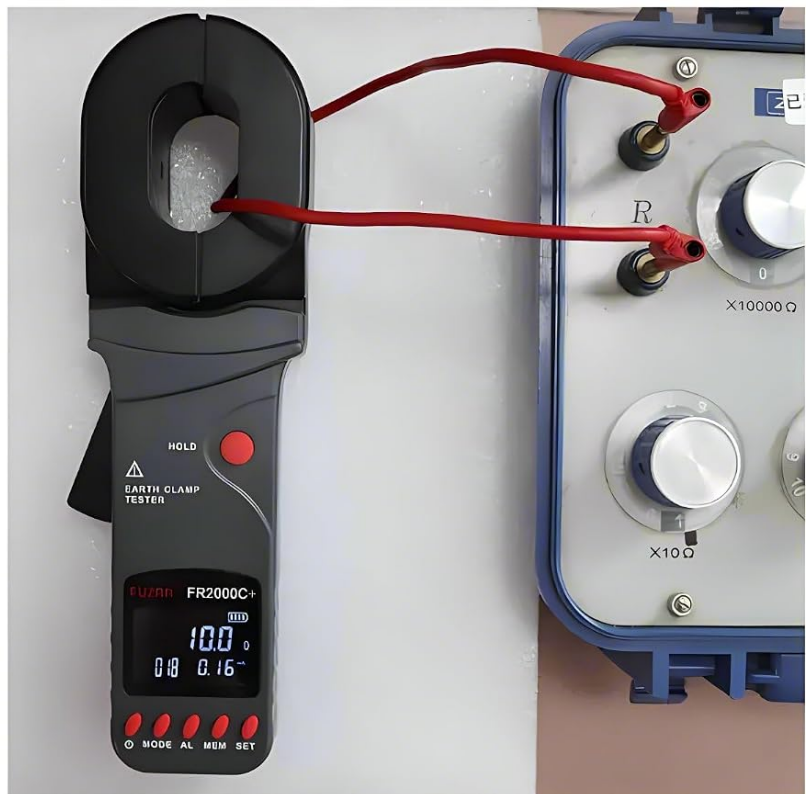
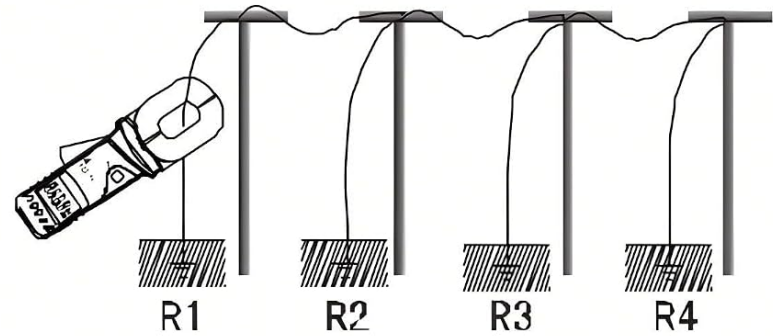


Figure 4: Diagram showing a multi-point grounding system (R1, R2, R3, R4) and how a clamp tester can be used for field applications to measure individual ground resistances without disconnection.

5.3. Video Demonstration

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Video 1: This video demonstrates the general operation and features of the FUZZR FR2000+ series clamp earth resistance testers, including how to open the clamp and view measurements on the display.

6. MAINTENANCE AND CARE

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the tester in its carrying case in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears. Remove batteries if the device will not be used for an extended period to prevent leakage.

- **Calibration:** Regular calibration by a qualified service center is recommended to ensure accuracy, especially for professional applications.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Replace batteries, ensuring correct polarity.
Inaccurate readings.	Dirty clamp jaws; improper clamping; device needs calibration.	Clean clamp jaws; ensure jaws are fully closed around the conductor; consider professional calibration.
"OL" or "OVERLOAD" displayed.	Measurement exceeds the device's range.	Ensure the resistance being measured is within the 0.01Ω-200Ω range for FR2000A+.
"FULL" displayed when saving data.	Data storage memory is full.	Delete old data to free up memory. Refer to the specific manual for data management.

8. SPECIFICATIONS

Detailed technical specifications for the FUZZR FR2000A+ Clamp Earth Resistance Tester:

Feature	Specification (FR2000A+)
Model	GT-FR2000A+
Resistance Range	0.01Ω - 200Ω
Resistance Resolution	0.001Ω
Current Range	Not applicable (no current function)
Measurement Method	Mutual Inductance
Data Storage	300 groups
Measurement Time	2 times/second
Automatic Shutdown	After 5 minutes of inactivity
Jaw Size	55mm * 32mm
Item Weight	1 Kilogram
Upper Temperature Rating	50 Degrees Celsius

Same screen display

Current of resistance

Same screen display



– MODEL CONTRAST –

Model	FR2000A+	FR2000+	FR2000B+	FR2000C+
Resistance range	0.01Ω-200Ω	0.01Ω- 500Ω	0.01Ω-1200Ω	0.01Ω-1200Ω
Class type	utility-type	Basic type	explosion proof type	Multifunction type
Resistance resolution	0.001Ω	0.001Ω	0.001Ω	0.001Ω

Figure 5: Model comparison table for the FR2000 series, detailing resistance range, class type, resolution, and current functions for FR2000A+, FR2000+, FR2000B+, and FR2000C+ models.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer: Guang Zhou Zheng Neng Electronic Technology.,Ltd.

Please refer to the official FUZRR website or the contact information provided with your product for the most up-to-date support details.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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