

Metrel MI3311

Metrel MI 3311 GammaPAT Lite Tester User Manual

Model: MI3311

1. INTRODUCTION

The Metrel MI 3311 GammaPAT Lite Tester is a portable, battery-powered appliance tester designed for quick and efficient periodic testing of portable electrical appliances. It is an essential tool for maintenance engineers and electrical contractors, offering user-friendly operation with various testing modes.

This manual provides detailed instructions for the safe and effective use of your GammaPAT Lite Tester, covering setup, operation, maintenance, and troubleshooting.

2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent injury or damage to the instrument:

- Read and understand all instructions before operating the device.
- Do not use the tester if it appears damaged or is not functioning correctly.
- Ensure all connections are secure before performing any tests.
- Only qualified personnel should perform electrical testing.
- Keep the device dry and away from extreme temperatures.
- Use only the specified power adapter and batteries.

3. PRODUCT FEATURES

The Metrel MI 3311 GammaPAT Lite Tester offers a range of features designed for efficient and reliable portable appliance testing:

- **Battery-Powered Operation:** Enhances portability for on-site testing.
- **User-Friendly Interface:** Features 2 levels of auto-sequence (basic and advanced) and a simple mode for ease of use.
- **Large Backlit LCD:** Provides clear visibility of results, even in low-light conditions.
- **Firmware Updatability:** Allows for future updates to comply with evolving regulations.
- **Optional Barcode Scanning:** Supports faster testing by reading appliance IDs.
- **Integrated PAT Checkbox:** Ensures calibration verification according to practice codes.
- **Autosequence Function:** Automatically executes a series of tests with a single button press.

- **Internal Battery Charger:** Allows for convenient recharging of NiMH batteries within the device.
- **Built-in Help Screens:** Provides on-site referencing for testing procedures.
- **Memory Capacity:** Stores up to 1500 test locations for later download.
- **LED Indicators:** Two LED indicators provide quick status feedback.



Figure 1: Metrel MI 3311 GammaPAT Lite Tester. The image displays the Metrel MI 3311 GammaPAT Lite Tester, a compact, handheld device. It features a digital display showing 'VISUAL INSPECT' with options for 'CASING', 'FUSES', and 'WIRES', indicating its testing capabilities. Below the screen are navigation buttons, a 'TEST' button, 'MEM' for memory, and 'ESC'. A prominent UK-style three-pin plug socket is integrated on the lower right side for appliance connection. The device is dark grey with light blue and green accents, and has a kickstand visible at the back.

4. SETUP

Follow these steps to set up your GammaPAT Lite Tester for first use:

1. **Unpacking:** Carefully remove all components from the packaging. The standard kit includes: MI-3311 GammaPAT Lite unit, IEC cable, 1.8m test probe, red test cable, 1.5m red crocodile clip, red power adapter, 6 AA NiMH batteries, and a small soft carrying bag.
2. **Battery Installation:** Open the battery compartment on the back of the unit and insert the 6 AA NiMH batteries, ensuring correct polarity. Close the compartment securely.
3. **Initial Charging:** Connect the power adapter to the unit and a suitable power outlet. Allow the batteries to fully charge before first use. The internal battery charger will manage the charging process.
4. **Connecting Test Leads:** Connect the 1.8m test probe and the red test cable with the 1.5m red crocodile clip to the appropriate ports on the tester as indicated in the manual or on the device itself.

5. OPERATING INSTRUCTIONS

The GammaPAT Lite Tester is designed for straightforward operation. Here are the general steps for performing tests:

1. **Power On:** Press the power button to turn on the device. The backlit LCD will illuminate.

2. **Select Test Mode:** Use the navigation buttons to select the desired test mode (e.g., simple mode, basic auto-sequence, advanced auto-sequence). The built-in help screens can guide you through the selection process.
3. **Connect Appliance:** Plug the appliance to be tested into the integrated UK-style three-pin plug socket on the tester. For certain tests, connect the test probe and crocodile clip to the appliance as required.
4. **Perform Test:** Press the 'TEST' button to initiate the selected test sequence. The device will automatically perform the necessary measurements.
5. **Review Results:** Test results will be displayed on the LCD screen. The integrated PAT checkbox helps verify calibration.
6. **Save Results (Optional):** If desired, use the 'MEM' button to save the test results to the internal memory. The device can store up to 1500 test locations.
7. **Barcode Scanning (Optional):** If using the optional barcode scanning system, scan the appliance ID before starting the test to associate results with specific items.

6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your GammaPAT Lite Tester:

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Charging:** Regularly recharge the NiMH batteries using the internal charger to maintain optimal performance.
- **Firmware Updates:** Periodically check the Metrel website for firmware updates. These updates can be performed to keep the instrument compliant with the latest regulations.
- **Storage:** Store the tester in its soft carrying bag in a cool, dry place when not in use.
- **Calibration:** Regular calibration by an authorized service center is recommended to ensure continued accuracy. The integrated PAT checkbox provides a quick verification.

7. TROUBLESHOOTING

If you encounter issues with your GammaPAT Lite Tester, consider the following common troubleshooting steps:

- **Device Not Powering On:** Check if the batteries are correctly installed and sufficiently charged. Connect the power adapter to ensure it's receiving power.
- **Inaccurate Readings:** Ensure test leads are securely connected and not damaged. Verify the appliance under test is properly connected. Consider performing a calibration check using the integrated PAT checkbox.
- **Display Issues:** If the display is dim or unreadable, check battery charge. The backlight should provide sufficient illumination.
- **Test Failure:** Review the on-screen help messages. Ensure the appliance being tested meets the requirements for the selected test.
- **Data Transfer Issues:** If attempting to download data, ensure the optional PatLink Pro software is correctly installed and the connection cable is secure.

For persistent issues, contact Metrel customer support or an authorized service center.

8. SPECIFICATIONS

Specification	Value
Manufacturer	Metrel

Specification	Value
Model Number	MI3311
Item Weight	130 Grams
Power Source	Battery Powered
ASIN	B000YY3VCQ
Date First Available (Amazon.com.be)	June 22, 2022

9. WARRANTY AND SUPPORT

Specific warranty terms and conditions for the Metrel MI 3311 GammaPAT Lite Tester are typically provided with the product documentation or can be found on the official Metrel website. Please refer to these resources for detailed warranty information.

For technical support, service, or inquiries regarding spare parts, please contact your local Metrel distributor or visit the Metrel official website for contact information.

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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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question

