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Gossen Metrawatt PROFITEST MTECH+IQ (M536N), 2821590

Gossen Metrawatt PROFITEST MTECH+IQ Installation Tester User Manual

Model: M536N (Part No. 2821590)

Brand: Gossen Metrawatt

1. Introduction

This manual provides essential instructions for the safe and effective use of the Gossen Metrawatt PROFITEST MTECH+IQ Installation Tester. This device is designed for comprehensive testing of protective measures on fixed electrical installations, ensuring compliance with international standards such as IEC 60364-6 (DIN VDE 0100-600) and EN 50110-1 (DIN VDE 0105-100). It is suitable for initial verification, repair, extension, and periodic re-testing (DGUV note 3). The PROFITEST MTECH+IQ adheres to EN 61557 parts 1 to 7 and 10, offering integrated memory and insulation measurement capabilities up to 1000 V.

2. Safety Instructions

Read all instructions carefully before use. Failure to follow safety guidelines may result in electric shock, fire, or personal injury.

- Only qualified personnel should operate this device.
- Always inspect the device and accessories for damage before each use. Do not use if damaged.
- Ensure proper grounding (PE detection) to protect the operator during measurements.
- Do not exceed the specified voltage and current ratings.
- Avoid operating the device in wet or explosive environments.
- Use only original Gossen Metrawatt accessories and replacement parts.
- Disconnect the device from the power source before cleaning or servicing.

3. Package Contents

Verify that all items listed below are present in your package. If any items are missing or damaged, contact your supplier immediately.



Image 1: The Gossen Metrawatt PROFITEST MTECH+IQ Installation Tester, accompanied by various test leads (black and red), specialized test probes (green and black), a robust carrying case, and a visual representation of the associated software interface displaying measurement data and analysis.

- PROFITEST MTECH+IQ Installation Tester
- Set of test leads (e.g., black and red leads)
- Specialized test probes (e.g., green and black probes)
- Carrying case
- Power adapter/charging cable
- USB communication cable
- Calibration certificate (DAkkS)
- Quick Start Guide
- Software CD/Download link for data management

4. Setup

4.1 Initial Charging

Before first use, fully charge the device's internal battery using the provided power adapter. Connect the adapter to the device and a suitable power outlet. The charging indicator will show the charging status.

4.2 Connecting Test Leads

Connect the appropriate test leads and probes to the designated input terminals on the PROFITEST MTECH+IQ. Ensure connections are secure to prevent inaccurate readings or hazards. The device is designed for efficient measurements without tedious cable changes.

4.3 Language Selection

The device supports multiple languages for international use. Access the settings menu to select your preferred language.

5. Operating Instructions

5.1 Powering On/Off

Press and hold the power button to turn the device on or off.

5.2 Navigating the Menu

Use the navigation buttons adjacent to the display to scroll through menus and select functions. The intuitive interface allows for easy access to various test modes.

5.3 Performing Installation Tests

The PROFITEST MTECH+IQ offers pre-configured and user-programmable test sequences for rapid testing of electrical installations.

1. **Select Test Type:** Choose the required test from the main menu (e.g., Insulation Resistance, Loop Impedance, RCD Test).
2. **Connect to Installation:** Safely connect the test leads to the electrical installation points as per the selected test procedure.
3. **Initiate Measurement:** Follow the on-screen prompts to start the measurement. The device will guide you through the process.
4. **Review Results:** Measurement results are displayed on the digital screen. The device provides clear indications of compliance or non-compliance with set limits.

5.4 Insulation Measurement

The device supports insulation resistance measurements up to 1000 V. Ensure the circuit under test is de-energized before performing insulation tests.

5.5 RCD Testing

Test all current-sensitive residual current devices (RCDs). The device offers various RCD test modes to verify their proper function and tripping times.

5.6 Data Management and Documentation

The PROFITEST MTECH+IQ features an integrated memory capable of storing up to 50,000 records.

- **Object Entry:** Professionally record control objects and test documentation.
- **Structure Creation:** Easily create installation structures, perform measurements, and record data.
- **Protocol Generation:** Generate test protocols for comprehensive documentation.
- **Software Integration:** Utilize the accompanying software for detailed data analysis, report generation, and long-term archiving.

6. Maintenance

6.1 Cleaning

Clean the device regularly with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the device is

disconnected from any power source before cleaning.

6.2 Storage

Store the device in its carrying case in a dry, dust-free environment, away from direct sunlight and extreme temperatures.

6.3 Firmware Updates

The PROFITEST MTECH+IQ is designed to be future-proof with firmware updates. Regularly check the Gossen Metrawatt website for available updates to ensure optimal performance and access to new features.

6.4 Calibration

Regular calibration is crucial for maintaining measurement accuracy. The device comes with a DAkkS certificate and can be recalibrated by authorized service centers.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low battery or faulty power connection.	Charge the battery. Check power adapter and cable connections.
Inaccurate measurement readings.	Loose test lead connections, incorrect test setup, or device out of calibration.	Ensure all connections are secure. Verify test parameters. Consider recalibration.
Display shows an error message.	Specific error condition (e.g., over-range, incorrect input).	Refer to the detailed error code list in the full user manual or contact support.
Cannot connect to PC for data transfer.	Incorrect USB cable, driver issues, or software not running.	Use the supplied USB cable. Install necessary drivers. Ensure data management software is open.

8. Specifications

Feature	Detail
Brand	Gossen Metrawatt
Model Number	2821590 (M536N)
Product Dimensions (L x W x H)	47.5 x 33 x 33 cm
Item Weight	2.7 Kilograms
Power Source	Battery Powered
Compliance Standards	IEC 60364-6, EN 50110-1, DGUV note 3, EN 61557 (parts 1 to 7 and 10)
Insulation Measurement	Up to 1000 V
Internal Memory	Up to 50,000 records

9. Warranty and Support

9.1 Spare Parts Availability

Spare parts for the PROFITEST MTECH+IQ are available for a period of 1 year from the date of purchase.

9.2 User Support

Gossen Metrawatt provides comprehensive user support for questions regarding the device and its examination procedures. Please refer to the official Gossen Metrawatt website for contact information and further resources.

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

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