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› EMRSS Cornet ED88TPlus 5G Tri Mode Meter User Manual

EMR Shielding Solutions ED88TPlus

EMRSS Cornet ED88TPlus 5G Tri Mode Meter User Manual

Model: ED88TPlus | Brand: EMR Shielding Solutions

1. INTRODUCTION

The EMRSS Cornet ED88TPlus 5G Tri Mode Meter is a versatile device designed for detecting and measuring electromagnetic fields (EMF), radio frequency (RF) radiation, and low-frequency magnetic and electric fields. This meter provides comprehensive analysis capabilities, including sound signature analysis and automatic data logging, making it an essential tool for assessing environmental electromagnetic exposure.

Key Features:

- Wide Radio Frequency Detector (100 MHz - 8 GHz)
- Magnetic Field Detector (50 Hz - 10 KHz and 50Hz to 1KHz ranges)
- Electric Field Detector (50 Hz - 10 KHz)
- Sound signature analysis for identifying signal types (requires manual activation)
- Automatic Data Logging/Recording of measurement data)
- LCD moving graphic Histogram for real-time signal power level display



Figure 1.1: Front view of the EMRSS Cornet ED88TPlus 5G Tri Mode Meter, showing the display and control buttons.

2. PACKAGE CONTENTS

Upon opening the package, please verify that all items listed below are present and in good condition:

- EMRSS Cornet ED88TPlus 5G Tri Mode Meter
- LATNEX EVA Carrying Case
- User Manual (this document)

Note: A 9V battery is required for operation and is not included in the package.



Figure 2.1: Meter securely placed within its EVA carrying case.



Figure 2.2: Exterior view of the LATNEX EVA Carrying Case.

3. SETUP

3.1 Battery Installation

1. Locate the battery compartment cover on the back of the meter.
2. Slide or unclip the cover to open the compartment.
3. Insert a fresh 9V battery, ensuring the polarity (+/-) matches the diagram inside the compartment.
4. Close the battery compartment cover securely.



Figure 3.1: Rear view of the meter, indicating the battery compartment and sensor locations.

3.2 Initial Power On

After installing the battery, the meter should power on automatically or by pressing the **MODE** button. The LCD screen will illuminate, and the device will enter its default measurement mode.

4. OPERATING INSTRUCTIONS

4.1 Understanding the Display

The LCD screen displays real-time measurement values, units, and a moving graphic histogram. The histogram visually represents signal power levels, allowing for quick assessment of EMF/RF intensity. Color-coded indicators (green, yellow, orange, red) on the right side of the display provide a quick reference for signal strength, from low to high.

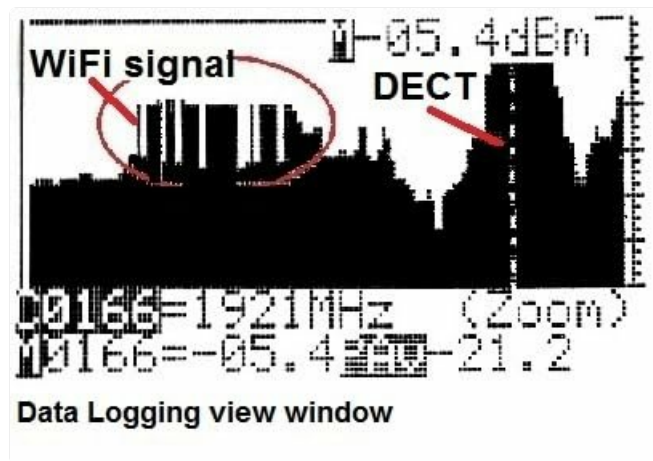


Figure 4.1: Example of the data logging view window on the meter's display, showing signal patterns.

4.2 Button Functions

- **MODE** (Green Button): Press to cycle through the different measurement modes: Radio Frequency (RF), Magnetic Field (LF-Gaussmeter), and Electric Field (LF-Electric Field).
- **HOLD** (Red Button): Press to freeze the current reading on the display. Press again to release and resume real-time measurements.
- **LIGHT** (Blue Button, Left): Activates or deactivates the display backlight for improved visibility in low-light conditions.
- **UNIT** (Blue Button, Right): Changes the measurement unit within the current mode (e.g., dBm, mW/m² for RF; mG, μ T for Magnetic Field).

4.3 Measurement Modes

The ED88TPlus offers three primary measurement modes:

1. **Radio Frequency (RF) Mode:** Measures high-frequency electromagnetic radiation from sources like Wi-Fi, cellular towers (including 5G), cordless phones, and microwave ovens. The meter's RF sensor is located at the top.
2. **Magnetic Field (LF-Gaussmeter) Mode:** Detects low-frequency magnetic fields typically emitted by electrical wiring, appliances, power lines, and motors. The magnetic field sensor is located on the side of the device.
3. **Electric Field (LF-Electric Field) Mode:** Measures low-frequency electric fields, often associated with ungrounded electrical devices, wiring, and power outlets. The electric field sensor is located on the back of the device.

To switch between modes, press the **MODE** button. Ensure the correct sensor is oriented towards the source you wish to measure for accurate readings. The device itself indicates sensor directionality.

4.4 Sound Signature Analysis

The meter can convert detected RF signals into audible tones, allowing users to identify the type of signal based on its characteristic sound. This feature needs to be manually activated. Refer to the on-screen prompts or the full user manual (PDF) for specific activation steps.

4.5 Data Logging and PC Connection

The ED88TPlus automatically logs measurement data, which can be reviewed on the device's display as a histogram. For more detailed analysis and long-term monitoring, the meter supports data export to a personal computer. While specific software details are beyond this manual, general steps involve connecting the meter via its USB port (if available) and using compatible software to download the logged data. Users may need to search for the latest software or drivers online, often available from the manufacturer or community resources.

5. MAINTENANCE

5.1 Battery Replacement

When the battery indicator on the display shows low power, replace the 9V battery as described in Section 3.1. Always use a fresh, high-quality 9V alkaline battery for optimal performance.

5.2 Cleaning and Storage

- Wipe the meter's exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Avoid exposing the device to extreme temperatures, high humidity, or direct sunlight.
- Store the meter in its LATNEX EVA carrying case when not in use to protect it from dust and physical damage.
- If storing for extended periods, remove the battery to prevent leakage.

6. TROUBLESHOOTING

Common Issues and Solutions:

- **Device does not power on:**
 - Ensure the 9V battery is correctly installed with proper polarity.
 - Replace the battery with a new one.
- **Sound signature analysis not working:**
 - This feature requires manual activation. Refer to the detailed user manual for specific steps.
 - Try powering the device off and on several times, as this has resolved the issue for some users.
- **RF readings are difficult to interpret/read:**
 - The histogram provides a visual representation; for precise numerical values, observe the digital readout.
 - Consider using the HOLD function to capture a stable reading.
 - For detailed analysis of fluctuating signals, utilizing the data logging feature and exporting data to a PC may be beneficial.
- **"O.L." (Over Limit) displayed for low-frequency magnetic fields:**
 - "O.L." indicates that the measured field strength exceeds the meter's maximum detectable limit for that range (>10mG). This suggests a very strong magnetic field in the area.
 - Move further away from the source or consider specialized shielding solutions if mitigation is desired.

7. SPECIFICATIONS

Feature	Specification
Product Model	ED88TPlus 5G
RF Detection Range	100 MHz - 8 GHz
Magnetic Field Detection Range	(1) 50 Hz - 10 KHz, (2) 50 Hz - 1 KHz
Electric Field Detection Range	50 Hz - 10 KHz
Power Source	1 x 9V battery (not included)
Package Dimensions	8.3 x 5.4 x 4 inches
Item Weight	11.2 ounces

Feature	Specification
Manufacturer	EMR Shielding Solutions
First Available Date	September 8, 2016

8. SAFETY INFORMATION

Please read and adhere to the following safety guidelines to ensure safe operation and prolong the life of your device:

- Do not attempt to open or modify the device. Unauthorized modifications can void the warranty and pose safety risks.
- Keep the device away from water and other liquids.
- Avoid dropping the device or subjecting it to severe impacts.
- Dispose of batteries according to local regulations.
- This device is for informational measurement purposes and should not be used as a substitute for professional health or safety advice.

9. WARRANTY AND SUPPORT

The EMRSS Cornet ED88TPlus 5G Tri Mode Meter is manufactured by EMR Shielding Solutions. For any questions regarding product functionality, technical support, or warranty claims, please contact EMR Shielding Solutions directly. Refer to their official website or the product packaging for the most current contact information.

For additional resources, including a detailed PDF user manual, please visit the product page on Amazon or the manufacturer's support section. A PDF user manual is available at: [User Manual \(PDF\)](#).

