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**TriField TF2**

# TriField EMF Meter Model TF2 Instruction Manual

Model: TF2 | Brand: TriField

## 1. OVERVIEW

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The TriField EMF Meter Model TF2 is a versatile handheld device designed to detect and measure three types of electromagnetic fields: magnetic fields, electric fields, and radio frequency (RF) fields. It provides accurate readings for various sources of electromagnetic pollution, including 4G and 5G cell phones, cell towers, WiFi routers, Bluetooth devices, AC powerlines, and smart meters. The meter features a large, easy-to-read LCD display with backlight, audio indicators, and battery life indicators, making it suitable for both professional and personal use.



Figure 1.1: The TriField EMF Meter Model TF2, a handheld device for measuring electromagnetic fields.

## 2. WHAT'S IN THE Box

Upon opening your TriField EMF Meter Model TF2 package, please ensure all the following items are present:

- TriField EMF Meter Model TF2

- 9V Battery
- Quick-start Card
- Detailed Instruction Manual (this document)
- Soft-shell, zipper carry case



Figure 2.1: The TriField EMF Meter Model TF2 shown with its included soft-shell carry case.

## 3. SETUP

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### 3.1 Battery Installation

The TriField EMF Meter Model TF2 requires one 9V battery for operation. To install or replace the battery:

1. Locate the battery compartment cover on the back of the meter.
2. Slide the cover downwards to open the compartment.
3. Insert a new 9V battery, ensuring the positive (+) and negative (-) terminals align correctly with the connectors inside the compartment.
4. Slide the battery cover back into place until it clicks securely.



Figure 3.1: The rear view of the TriField EMF Meter, illustrating the battery compartment for 9V battery installation.

### 3.2 Initial Power-On

Once the battery is installed, turn the rotary switch from the 'OFF' position to any measurement mode (MAG, ELEC, or RF) to power on the device. The LCD screen will illuminate, and the meter will begin taking readings.

## 4. OPERATING INSTRUCTIONS

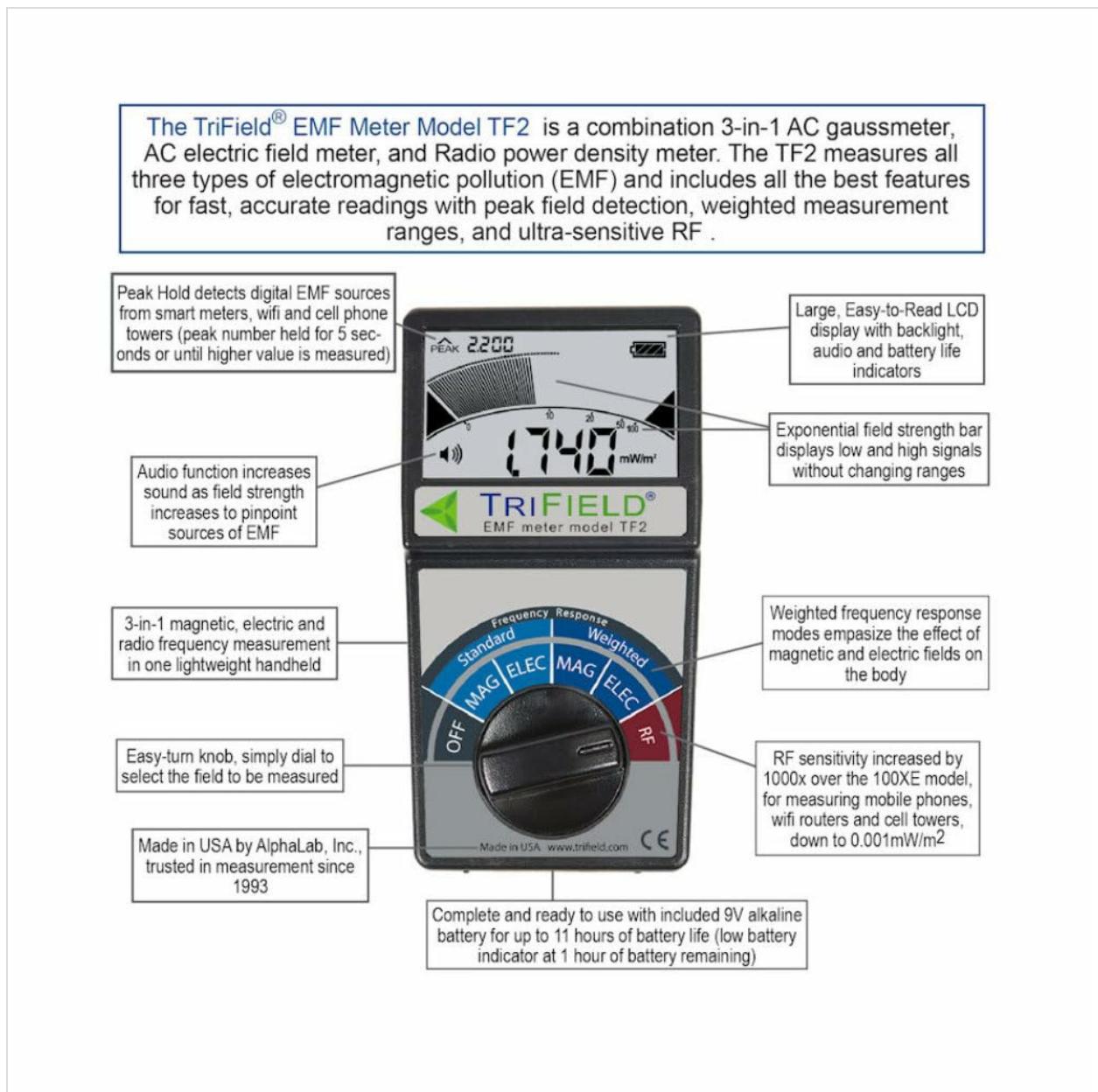
The TriField EMF Meter TF2 is designed for ease of use with its intuitive rotary switch and clear digital display.

### 4.1 Selecting Measurement Modes

Use the central rotary switch to select the desired measurement mode:

- **OFF:** Powers off the device.
- **MAG (Magnetic Field):** Measures AC magnetic fields. Available in 'Standard' and 'Weighted' frequency responses.
- **ELEC (Electric Field):** Measures AC electric fields. Available in 'Standard' and 'Weighted' frequency responses.
- **RF (Radio Frequency):** Measures RF power density. This mode is unweighted.

The 'Standard' frequency response provides a flat response across a wide range of frequencies, while the 'Weighted' response emphasizes frequencies that are more biologically active or have a greater effect on the human body.



**Figure 4.1:** Detailed diagram illustrating the various features and controls of the TriField EMF Meter Model TF2, including the display, rotary switch, and frequency response options.

## 4.2 Interpreting Readings

The LCD display shows both average field signal and peak levels. A pulse indicator bar in the upper left corner is active during RF monitoring, indicating pulsed signals common in Wi-Fi and cellular communications.

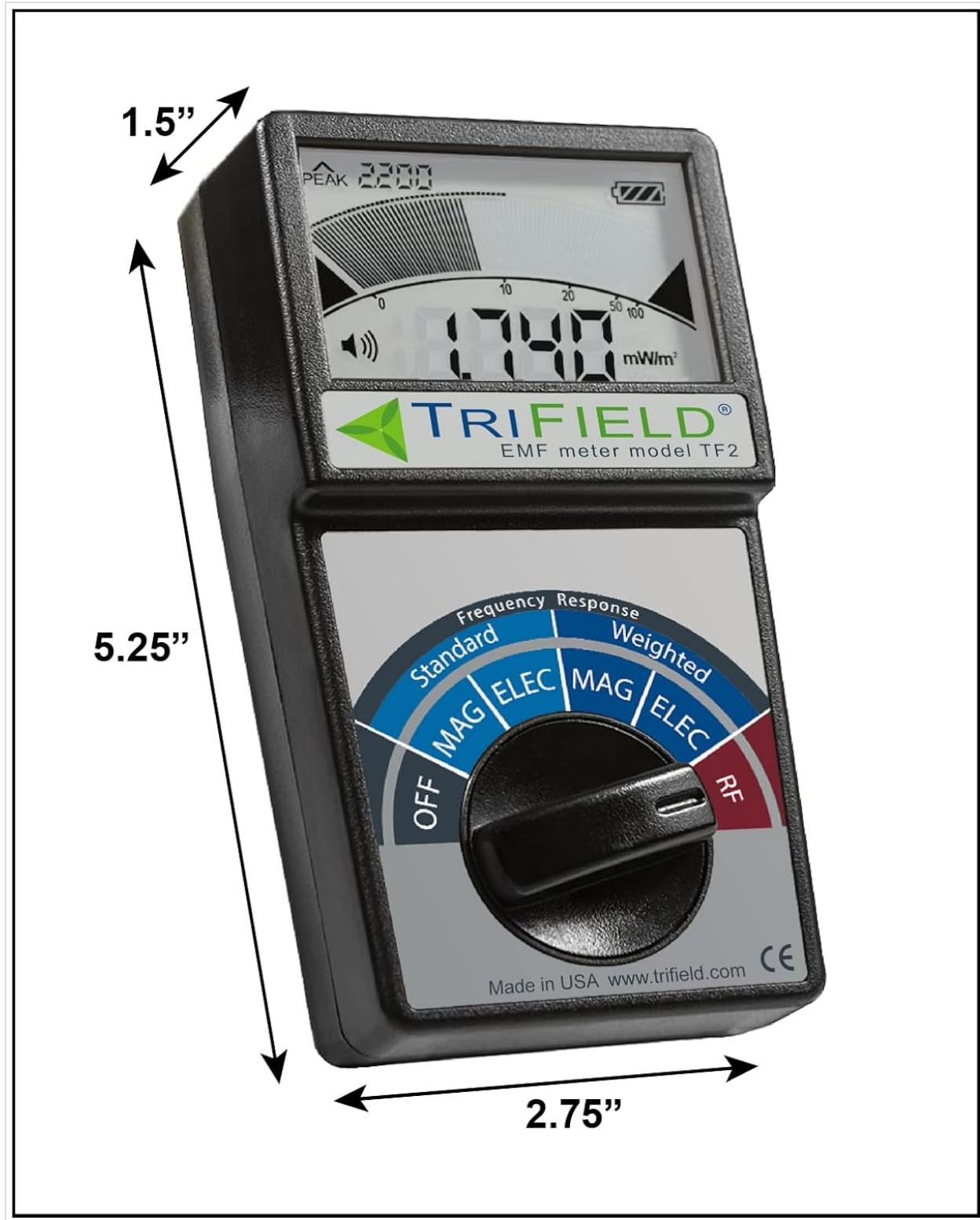
- **Average Reading:** The main numerical display shows the average field strength.
- **Peak Reading:** The 'PEAK' value displayed at the top indicates the highest instantaneous reading detected. This value holds for 5 seconds or until a higher value is measured.
- **Exponential Field Strength Bar:** This bar provides a visual representation of the field strength without requiring range changes.



## Know your devices:

The TriField® Meter Model TF2 Measures 4G & 5G Cell Phones, Cell Phone Towers, Bluetooth Connections, Wifi Routers, Smart Meters, and Microwave Ovens, with improved RF sensitivity.

**Figure 4.2:** The TriField EMF Meter TF2 actively measuring radio frequency (RF) emissions from a nearby cell phone, displaying the current power density.



**Figure 4.3:** The TriField EMF Meter TF2 measuring electric fields, positioned near a smart meter to demonstrate its capability in detecting AC electric pollution.

### 4.3 Audio Function and Backlight Control

The meter includes an audio function that increases in sound as field strength increases, aiding in pinpointing sources of EMF. This feature, along with the display backlight, can be toggled on or off via switches located inside the battery compartment for user preference and to conserve battery life.

## 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. Using a fresh 9V alkaline battery ensures optimal performance and up to 11 hours of continuous operation.

## 5.2 Cleaning and Storage

To maintain your TriField EMF Meter TF2, wipe the exterior with a soft, dry cloth. Avoid using abrasive cleaners or solvents. Store the meter in its soft-shell carry case in a cool, dry place away from extreme temperatures and direct sunlight when not in use.

## 6. TROUBLESHOOTING

If you encounter any issues with your TriField EMF Meter TF2, consider the following common troubleshooting steps:

- **No Power/Display Not On:** Check if the battery is correctly installed and fully charged. Replace the 9V battery if necessary.
- **Erratic Readings:** Ensure you are not in an area with extremely high or rapidly fluctuating EMF levels that might overwhelm the sensor. Move to a different location and re-test. Verify the selected measurement mode is appropriate for the field you are trying to measure.
- **No Audio/Backlight:** Check the respective switches inside the battery compartment to ensure they are in the 'ON' position.

For persistent issues or further assistance, please refer to the Warranty & Support section for contact information.

## 7. SPECIFICATIONS

Feature	Detail
Model Number	TF2
Product Dimensions	1.5 x 2.75 x 5.25 inches
Item Weight	11 ounces
Power Source	1 x 9V Battery (included)
Color	Black, Grey
Manufacturer	AlphaLab, Inc.
Detection Types	Magnetic (AC), Electric (AC), Radio Frequency (RF)
RF Frequency Range	20 MHz – 6 GHz

## 8. WARRANTY & SUPPORT

The TriField EMF Meter Model TF2 is manufactured by AlphaLab, Inc. and comes with a **1-Year Manufacturer Limited Warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any questions regarding the operation of your meter, please contact AlphaLab, Inc. directly. Contact information can typically be found on the manufacturer's official website or the Quick-start Card included with your product.

AlphaLab, Inc. is based in Salt Lake City, Utah, USA, and provides dedicated support for its products.

