

FenceMate FT5502

FenceMate Digital Fence Tester FT5502 User Manual

Model: FT5502

1. INTRODUCTION

The FenceMate Digital Fence Tester FT5502 is designed to quickly and accurately measure voltage, current, and current direction on electric fence lines. This device assists in locating faults along various types of fence lines, including steel wire, aluminum wire, poly wire, rope, tape, and braid. Its robust design and clear display make it an essential tool for electric fence maintenance.

Key Features:

- Quick and easy fault location along electric fence lines.
- Large, backlit LCD display showing voltage, current, and direction simultaneously.
- Wide measurement range up to 19,900 Volts (19.9 kV), compatible with most energizers.
- Molded in engineering-grade ABS polymer for sturdy and durable construction.
- Wireless design with a belt clip for easy operation and portability.
- Replaceable 9V battery (required for operation).

2. PRODUCT OVERVIEW

Familiarize yourself with the components of your FenceMate Digital Fence Tester FT5502:



Image 1: Front and back view of the FenceMate Digital Fence Tester FT5502 with key components labeled. The front shows the LCD display, power button, voltage probe, and speaker grill. The back shows the belt clip.

Component Identification:

- **Voltage Probe:** Top metal hook for contacting the fence wire.
- **Polarity Indicator:** Displays the polarity of the voltage.
- **Sound ON Indicator:** Shows when the sound feature is active.
- **Battery Low Indicator:** Alerts when the 9V battery needs replacement.
- **Current Direction Arrow:** Indicates the direction of current flow.
- **Power ON Button:** Press to activate the device.
- **Speaker Grill:** Emits audible alerts.
- **Fence Voltage/Last Current Reading:** Top section of the LCD display showing voltage in kV or the last current reading.
- **Fence Current Reading:** Bottom section of the LCD display showing current in Amps.
- **Belt Clip:** Located on the back for convenient carrying.

3. SETUP

3.1 Battery Installation

The FenceMate Digital Fence Tester FT5502 requires one 9V battery for operation. A 9V battery is typically included with the product, but may need to be installed before first use or replaced when the 'Battery Low' indicator appears.

1. Locate the battery compartment on the back of the device. It is secured by screws.
2. Using a small screwdriver, carefully remove the screws and open the battery compartment cover.
3. Connect a new 9V battery to the battery clip, ensuring correct polarity.
4. Place the battery inside the compartment and replace the cover, securing it with the screws.



Image 2: The back of the FenceMate Digital Fence Tester FT5502, illustrating its dimensions (160mm length, 75mm width) and the location of the battery compartment and belt clip.

3.2 Attaching the Belt Clip

The device comes with a pre-installed belt clip for convenient carrying. Ensure it is securely attached before use.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

Follow these steps to measure fence voltage and current:

1. **Power On:** Press the 'Power ON' button located on the front of the device. The LCD display will illuminate.
2. **Contact Fence:** Hook the metal voltage probe at the top of the tester onto the electric fence wire. Ensure good contact.
3. **Read Display:** The LCD will immediately display the fence voltage in kilovolts (kV) and the current in Amps (A). The current direction arrow will indicate the flow of current.
4. **Fault Finding:** Move along the fence line, taking readings at various points. A significant drop in voltage or a change in current direction can indicate a fault location.



Image 3: The FenceMate Digital Fence Tester FT5502 actively measuring an electric fence. The display shows a voltage of 5.2 kV and a current of 1.14 A, indicating the fence is operational.



Image 4: The FenceMate Digital Fence Tester FT5502 being used to measure another electric fence, showing a reading of 4.5 kV and 1.5 A. A 'Warning Electric Fence' sign is visible in the background.

4.2 Interpreting Readings

- **Voltage (kV):** Indicates the electrical potential of the fence. A healthy fence should maintain a consistent voltage level.
- **Current (A):** Represents the flow of electricity. Higher current readings can sometimes indicate a fault or leakage.
- **Current Direction:** The arrow on the display helps pinpoint the direction of current flow, which is crucial for quickly locating where a fault might be drawing power from the fence.

5. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or immerse the device in water. The device is rainproof, but not submersible.
- **Storage:** Store the tester in a dry place, away from extreme temperatures and direct sunlight.
- **Battery Replacement:** Replace the 9V battery when the 'Battery Low' indicator appears on the display to ensure accurate readings.

6. TROUBLESHOOTING

If you encounter issues with your FenceMate Digital Fence Tester FT5502, refer to the table below:

Problem	Possible Cause	Solution
No display or dim display	Low or dead battery; incorrect battery installation.	Replace the 9V battery. Ensure the battery is installed with correct polarity.
Inaccurate readings	Poor contact with fence wire; low battery; environmental interference.	Ensure firm contact with the fence wire. Replace battery if low. Test in a different location to rule out interference.
No sound	Sound feature is off; speaker malfunction.	Check if the 'Sound ON' indicator is active. If not, consult support.

7. SPECIFICATIONS

- **Model Number:** FT5502
- **Voltage Measurement Range:** Up to 19.9 kV (19,900 Volts)
- **Power Source:** 9V Battery (Battery Powered)
- **Material:** Engineering-grade ABS Polymer (Molded), Metal (Probe)
- **Color:** Red and Black
- **Item Weight:** Approximately 454 g (1 Pound)
- **Parcel Dimensions:** 20.8 x 9.09 x 4.29 cm
- **Style:** Industrial
- **Measurement Type:** Voltmeter

8. WARRANTY AND SUPPORT

FenceMate products are manufactured to high-quality standards. For information regarding warranty coverage, please refer to the warranty card included with your purchase or visit the official FenceMate website.

For technical support, troubleshooting assistance, or inquiries about replacement parts, please contact FenceMate customer service through the contact information provided on our official website or product packaging.