

Gallagher G50905

Gallagher Smart Fence Volt & Current Meter Instruction Manual

Model: G50905

1. PRODUCT OVERVIEW

The Gallagher Smart Fence Volt & Current Meter is a versatile digital tool designed for efficient fault finding and performance monitoring of electric fences. It combines a voltmeter, current meter, and directional fault finder into one robust device, enabling users to quickly identify and resolve issues on their fence lines.

Key features include:

- **Fast, Accurate Fault Location:** Detects shorts and indicates the exact direction of the problem, saving time on repairs.
- **Dual Measurement:** Provides real-time readings for both fence voltage and amperage on a clear digital screen.
- **Universal Compatibility:** Works with all types of electric fencing, regardless of energizer brand.
- **Durable Design:** Built with a tough, weather-resistant casing and a backlit LCD for field use.





Figure 1: Gallagher Smart Fence Volt & Current Meter (Model G50905)

2. SETUP AND BATTERY INSTALLATION

The Gallagher Smart Fence Volt & Current Meter requires a 3V CR2 battery (included). Follow these steps for installation:

1. Locate the battery compartment cover on the back of the device.
2. Using a small screwdriver, carefully remove the screw securing the battery cover.
3. Open the battery compartment.

4. Insert the 3V CR2 battery, ensuring the correct polarity (+/-) as indicated inside the compartment.
5. Replace the battery cover and secure it with the screw.

The package includes the Digital Fault Finder, a detachable earth lead, and the necessary 3V battery.

INCLUDES:

- Digital Fault Finder
- Detachable Earth Lead
- 3V Battery



Volt / Current Meter & Fault Finder

Digital multi-mode fault finding tool. Quickly and easily switch between Current Meter and Digital Volt Meter mode.



Figure 2: Included components: Digital Fault Finder, Detachable Earth Lead, and 3V Battery.

3. OPERATING INSTRUCTIONS

The Smart Fence Volt & Current Meter is designed for ease of use in the field. It can measure both voltage and current, and help pinpoint faults.

3.1. Measuring Voltage and Current

To measure fence voltage and current:

1. Ensure the device is powered on.
2. Connect the detachable earth lead to a good ground source (e.g., a ground rod or the fence's ground wire).
3. Touch the retractable voltage probe to the fence wire you wish to test.
4. The digital display will show both the voltage (kV) and current (A) readings.



Portable and Easy to Use

Pocket sized for convenience around the farm. Large easy to read LCD display shows voltage, current and direction of flow.



Figure 3: The device is portable and easy to use, with a large LCD display showing voltage, current, and direction of flow.

3.2. Fault Finding

The directional arrows on the display assist in locating faults quickly:

1. Begin testing at the energizer or a known good point on the fence.
2. Move along the fence line, taking readings at regular intervals.
3. If a fault (e.g., a short circuit or significant voltage drop) is detected, the arrows on the display will indicate the direction of the fault.
4. Follow the direction indicated by the arrows, continuing to take readings until the fault location is pinpointed. The current reading will typically increase significantly as you approach a short.



Find Faults Quickly

Save hours diagnosing electric fence shorts and low voltage issues. Retractable voltage probe for checking hard to reach places.



Figure 4: The retractable voltage probe allows for checking hard-to-reach places, aiding in quick fault diagnosis.

4. MAINTENANCE

To ensure the longevity and accurate performance of your Gallagher Smart Fence Volt & Current Meter, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a damp cloth to remove dirt and debris. Do not use abrasive cleaners or solvents.
- **Storage:** Store the meter in a cool, dry place when not in use. Avoid extreme temperatures.
- **Battery Replacement:** The device is designed for long battery life (up to 3 years). Replace the 3V CR2 battery when the low battery indicator appears on the display or if readings become inconsistent. Refer to Section 2 for battery installation instructions.
- **Durability:** The meter features a tough, impact- and water-resistant case, making it suitable for outdoor use. However, avoid submerging the device in water.



Figure 5: The device is built to last with a tough, impact- and water-resistant case, and uses a replaceable 3V CR2 battery.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or device won't turn on.	Dead or incorrectly installed battery.	Check battery polarity. Replace the 3V CR2 battery.
Inaccurate or fluctuating readings.	Poor ground connection; low battery; interference.	Ensure the earth lead has a solid connection to ground. Replace battery. Move away from other electrical devices.
Arrows not indicating fault direction clearly.	Fault is very close; multiple faults; weak fence pulse.	Take readings closer together. Address obvious faults first. Check energizer output.

Problem	Possible Cause	Solution
Device not detecting current.	No current flow on fence; device malfunction.	Verify energizer is on and fence is live. Ensure proper contact with fence wire. If problem persists, contact support.

6. SPECIFICATIONS

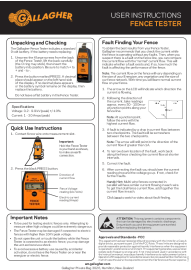



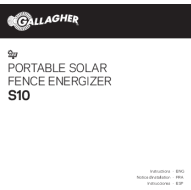

Feature	Detail
Brand	Gallagher
Model Number	G50905
Power Source	Battery Powered (1 x 3V CR2 battery, included)
Measurement Type	Voltmeter, Ammeter (Current Meter)
Minimum Operating Voltage	3 Volts
Dimensions (L x W x H)	3 x 5 x 9 inches
Item Weight	7.7 ounces
UPC	644493005090, 644493509055
Manufacturer	GALLAGHER NORTH AMERICA

7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Gallagher website or contact Gallagher customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Gallagher Official Website: www.gallagher.com

For specific product inquiries or troubleshooting assistance not covered in this manual, please reach out to Gallagher's support team.

 <p>USER INSTRUCTIONS FENCE TESTER</p> <p>Important Safety Notes</p> <p>Quick Use Instructions</p> <p>Each Finding Your Fence</p>	<p>Gallagher Fence Tester User Instructions</p> <p>Comprehensive user instructions for the Gallagher Fence Tester, detailing setup, operation, fault finding, and important safety notes. Includes specifications and troubleshooting tips.</p>
 <p>i-SERIES ENERGIZER REMOTE & FAULT FINDER</p> <p>Instructions - ENG Installation Instructions - NED Notice d'installation - FRA Bedrãfbaarstelling - DEU Montierungsanleitung - DAN Instrucciones - ESP Monteringsoversigt - SVE Istruzioni per l'installazione - ITA</p>	<p>Gallagher i-Series Energizer Remote & Fault Finder User Manual</p> <p>User manual for the Gallagher i-Series Energizer Remote & Fault Finder, providing instructions on installation, features, fence checking, fault finding, and alarm detection in multiple languages.</p>
 <p>Electric Fencing 101 Electric Fencing Systems Design, Installation & Maintenance</p>	<p>Electric Fencing 101: Design, Installation & Maintenance Guide</p> <p>A comprehensive guide to electric fencing systems from Gallagher, covering design principles, installation techniques, maintenance, fault finding, and safety considerations for various livestock and property types.</p>
 <p>Lithium Solar Energizer</p>	<p>Gallagher Lithium Solar Energizer Quick Start Guide</p> <p>Quick start guide for the Gallagher Lithium Solar Energizer (Model 3E5721). Learn how to install, charge, and operate your energizer safely and effectively.</p>
 <p>PORTABLE SOLAR FENCE ENERGIZER S10</p>	<p>Gallagher S10 Portable Solar Fence Energizer: User Manual & Installation Guide</p> <p>Comprehensive user manual for the Gallagher S10 Portable Solar Fence Energizer, covering installation, operation, safety, troubleshooting, and specifications. Learn how to effectively manage your electric fencing with this solar-powered solution.</p>
 <p>FENCE ENERGIZER M5000i</p>	<p>Gallagher M5000i Mains Powered Fence Energizer User Manual</p> <p>Comprehensive user manual for the Gallagher M5000i Mains Powered Fence Energizer. Includes detailed instructions on installation, operation, safety, troubleshooting, and product specifications for effective animal containment.</p>

