

TEMPO PE2003-G

TEMPO Communications PE2003-G Pulser Ground Fault Locator

Model: PE2003-G

Brand: TEMPO

INTRODUCTION

The TEMPO Communications PE2003-G Pulser Ground Fault Locator is designed for accurately identifying breaks in buried wire and cable insulation. This professional-grade kit provides essential tools for efficient fault locating, saving time and resources by pinpointing issues that may require replacement rather than repair.





Figure 1: Complete PE2003-G Pulser Ground Fault Locator kit, including the transmitter, receiver, A-frame, ground stake, and cables.

SETUP GUIDE

Before operating the PE2003-G, ensure all components are present and properly connected. The kit includes a rechargeable transmitter, receiver, A-frame, ground stake, 120V charger, and a 12V DC adapter.

1. **Charge the Transmitter:** Connect the 120V charger or 12V DC adapter to the transmitter to ensure it is fully charged before use.
2. **Assemble the A-Frame and Receiver:**

“A” FRAME RECEIVER

Features a visual analog meter pointing to the source of the voltage.



Figure 2: Close-up view of the PE2003-G A-Frame Receiver, showing the meter and controls.

Securely attach the receiver unit to the top bar of the A-frame. Ensure it is firmly in place to prevent movement during operation.



Video 1: Demonstrates the setup process, including attaching the receiver to the A-frame and connecting lead wires.

3. **Connect Lead Wires to Receiver:** Attach the red and black lead wires to their respective ports on the receiver.
4. **Connect Black Lead to Ground Stake:** Drive the ground stake into the earth near the area to be tested. Connect the black lead wire from the transmitter to the ground stake.



Figure 3: Proper connection of lead wires to the transmitter unit.

5. **Connect Red Lead to Faulty Wire:** Connect the red lead wire from the transmitter to the wire or cable you suspect has a fault. Ensure a secure connection.

OPERATING INSTRUCTIONS

The PE2003-G operates by sending a high-voltage signal through the faulty wire, which then leaks into the ground at the point of insulation damage. The A-frame receiver detects this leakage.

1. **Power On:** Turn on the transmitter unit.
2. **Position the A-Frame:** Place the A-frame over the suspected path of the buried cable. The spikes on the A-frame should penetrate the ground.
3. **Observe the Receiver Needle:** As you move the A-frame along the cable path, observe the needle on the receiver's analog meter.

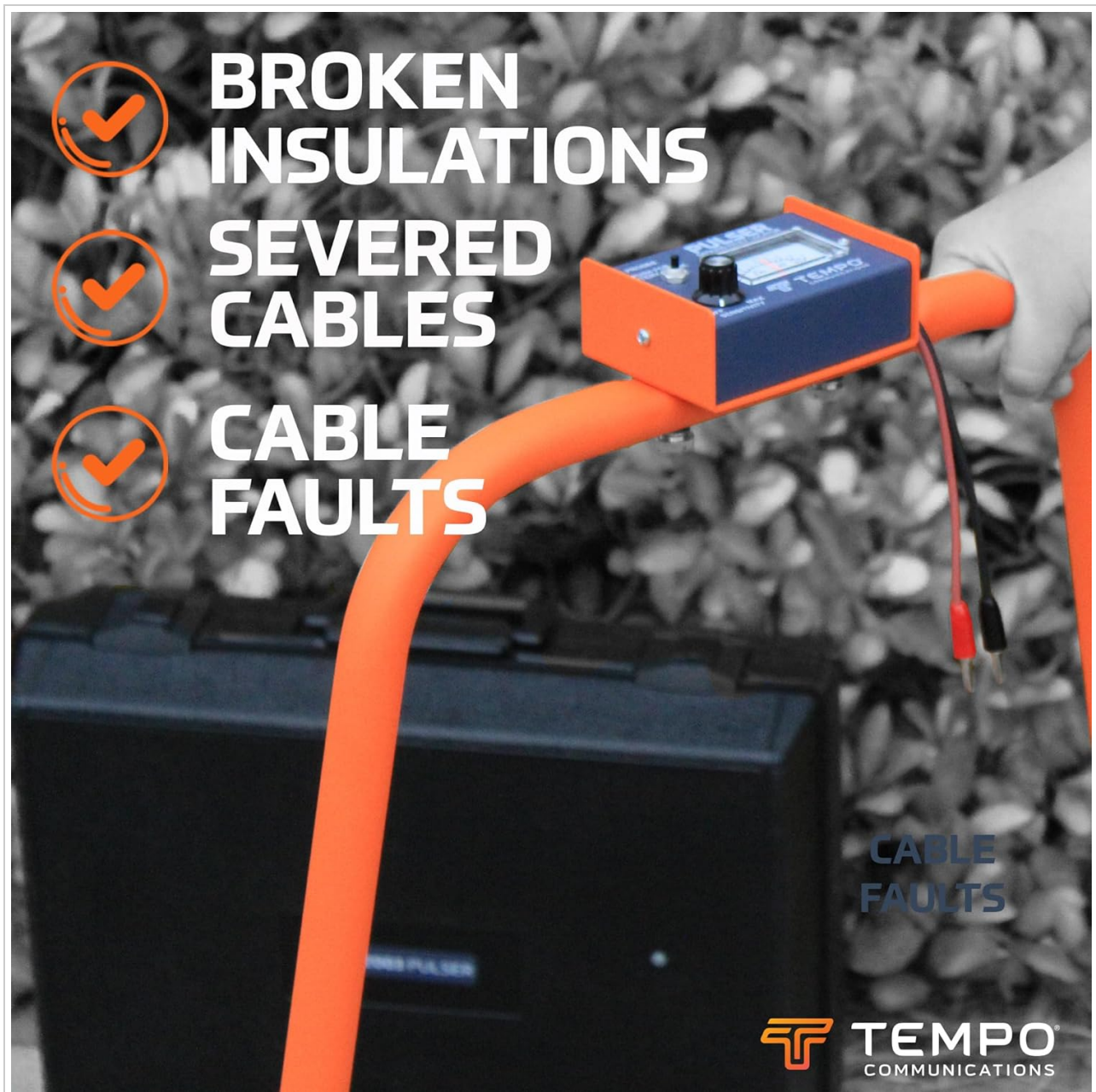


Figure 4: The PE2003-G is effective in locating broken insulations, severed cables, and various cable faults.

The needle will deflect towards the fault. The direction of the needle indicates the direction of the current flow towards the fault.

4. **Locate the Fault:** Continue moving the A-frame, following the direction indicated by the receiver needle. The fault is located when the needle reverses direction or shows a significant change in reading. This indicates you have passed over the fault.



Figure 5: A user demonstrating the use of the A-frame receiver to pinpoint an underground fault.

The PE2003-G is designed to detect multiple faults on a single wire, which can help determine if a repair or full replacement is more appropriate.

5. **Adjust Sensitivity:** Use the sensitivity knob on the receiver to adjust the responsiveness of the needle. Increase sensitivity for smaller faults or deeper cables, and decrease it to narrow down the fault location.

MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your PE2003-G Pulser Ground Fault Locator.

- **Battery Care:** The transmitter uses a rechargeable 12V battery. Promptly recharge the transmitter after each use to maintain battery health. The receiver requires a 9V battery (not included); replace it when the battery check indicates low power.
- **Cleaning:** After each use, wipe down the A-frame, receiver, and transmitter with a clean, damp cloth. Ensure all components are dry before storing.
- **Storage:** Store the unit and its components in the provided molded carrying case in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Inspection:** Regularly inspect all cables, connectors, and the A-frame for any signs of wear, damage, or corrosion. Replace damaged components immediately to ensure safe and accurate operation.

TROUBLESHOOTING

If you encounter issues with your PE2003-G, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No needle deflection on receiver.	<ul style="list-style-type: none">• Transmitter not powered on.• Low transmitter battery.• Poor connection to faulty wire or ground stake.• Receiver sensitivity too low.• No fault present or fault is too small.	<ul style="list-style-type: none">• Ensure transmitter is switched ON.• Recharge transmitter battery.• Check all connections for tightness and proper contact.• Increase receiver sensitivity.• Verify the presence of a fault using other methods if possible.

Problem	Possible Cause	Solution
Inconsistent or erratic needle readings.	<ul style="list-style-type: none"> • Interference from other buried utilities. • Ground conditions (e.g., very dry soil). • Receiver sensitivity too high. 	<ul style="list-style-type: none"> • Move away from known utility lines. • Moisten the ground around the ground stake and cable path. • Decrease receiver sensitivity.
Difficulty pinpointing exact fault location.	<ul style="list-style-type: none"> • Receiver sensitivity too high. • Moving too quickly over the cable path. 	<ul style="list-style-type: none"> • Gradually decrease sensitivity as you approach the fault. • Slow down your movement over the cable path to observe subtle changes in needle deflection.

If the problem persists, contact TEMPO Communications customer support for further assistance.

SPECIFICATIONS

- **Brand:** TEMPO
- **Model:** PE2003-G
- **Power Source:** Battery Powered (Rechargeable 12V for Transmitter, 9V for Receiver)
- **Style:** Pulse Ground Fault Locator
- **Color:** Black
- **Item Dimensions (L x W x H):** 9 x 36 x 25 inches
- **Minimum Operating Voltage:** 12 Volts (DC)
- **Specification Met:** ISO 9001
- **Upper Temperature Rating:** 50 Degrees Celsius
- **UPC:** 810025412623
- **Manufacturer:** Tempo Communications
- **Item Weight:** 17.76 pounds
- **Material:** Aluminum, Polyethylene
- **Measurement Accuracy:** 0.1mm
- **Included Components:** Underground Locator (Rechargeable Transmitter, Receiver, A-frame, Ground stake, 120V charger, 12V DC adapter)

WARRANTY INFORMATION

TEMPO Communications products are manufactured to high standards and are warranted against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official TEMPO Communications website. Keep your purchase receipt as proof of purchase for warranty claims.


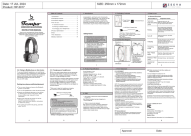
CUSTOMER SUPPORT

For technical assistance, troubleshooting, or inquiries regarding your TEMPO Communications PE2003-G Pulser Ground Fault Locator, please contact our customer support team.

- **Online Resources:** Visit the official [TEMPO Communications Store on Amazon](#) for product information and additional resources.
- **User Manual (PDF):** A downloadable PDF version of the user manual is available at <https://manuals.plus/m/42d9c90d4422d5ef33f7f4e97aca50cb51c718ab45f1f1343f8d196d5742ae14>.

- **Contact Information:** Refer to the contact details provided in your product packaging or on the official TEMPO Communications website for direct support.

Related Documents

	<p>Roadmaps That Matter: A Guide to Strategic Planning and Execution</p> <p>Learn how to create actionable roadmaps that align strategy with execution. This guide covers common challenges, best practices, and tools for effective roadmapping, from balancing priorities to measuring success.</p>
	<p>Tempo HP-3017 Wireless Headphones Instruction Manual</p> <p>Get detailed instructions for your Tempo HP-3017 Wireless Headphones. This manual covers pairing, charging, specifications, safety, and troubleshooting for your Bluetooth audio experience.</p>

Documents - TEMPO – PE2003-G

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Tempo is laser-focused on delivering rugged, reliable and job-specific tools for the Telecom technician. Talk with one of our specialists to learn how choosing Tempo can elevate your game!

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PULSER FAULT LOCATOR (PE2003-G)
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Tempo offers a complete line of state-of-the-art locators for the Telecom and Irrigation Technician. From pinpointing the precise spot of buried electronic marker balls and applies to confidently hunting down buried wires and cables, and locating areas of damage, Tempo has you covered so you can uncover all you need to get the job done!

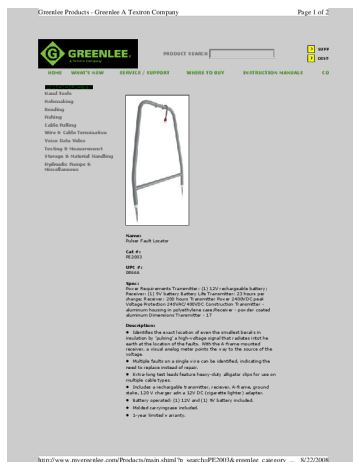
With its inductive signal detection, Tempo's Tracker II can be used on active or dead systems. Technicians can trace the path and determine the depth of buried wires (including irrigation wires), cables, and metallic pipes or conduits and find the ends of a cut cable without having to deactivate the systems.

Tempo's PE2003-G Pulsar Ground Fault Locator identifies the exact location of even the smallest breaks in wire and cable insulation by "tapping" a high-voltage signal that radiates into the earth at the location of the faults. With the A-frame mounted receiver, a visual meter points the way to the source of the voltage. The PE2003-G is a great time saver for telecom and irrigation professionals.

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