PEAKMETER MS6812

PEAKMETER MS6812 Cable Tracker Test Meter User Manual

Model: MS6812

1. Introduction

The PEAKMETER MS6812 Cable Tracker Test Meter is a professional tool designed for the installation, inspection, and maintenance of cable lines, including telephone and network cables. It assists in identifying the operational status of telephone lines, tracing wires, and performing continuity tests, making it an essential device for telecommunication and network technicians.

This manual provides detailed instructions on how to set up, operate, and maintain your MS6812 Cable Tracker Test Meter to ensure optimal performance and longevity.

2. Safety Information

Please read and understand all safety instructions before using the device. Failure to follow these instructions may result in electric shock, fire, or personal injury.

- Do not use the device if it appears damaged.
- Ensure batteries are inserted correctly according to polarity markings.
- Avoid contact with live circuits exceeding the device's specified voltage limits.
- Keep the device dry and clean. Do not expose it to moisture or extreme temperatures.
- Only use the device for its intended purpose as described in this manual.

3. Product Overview

The PEAKMETER MS6812 consists of two main units: a Transmitter (MS6812T) and a Receiver (MS6812R).

Figure 1: PEAKMETER MS6812 Transmitter (left) and Receiver (right).

3.1 Transmitter (MS6812T)

- **CONT/SCAN Switch:** Selects between continuity test mode and wire tracing/scanning mode.
- **TEST Button:** Initiates the selected test function.
- **LED Indicators:** Display continuity status (CONT), telephone line status (phone icon), and scan signal (SCAN).
- **RJ11/RJ45 Ports:** For connecting telephone and network cables.
- **Alligator Clips:** For connecting to bare wires or terminals.

3.2 Receiver (MS6812R)

Figure 2: Close-up of the MS6812 Receiver.

- **SCAN Button:** Activates the scanning function to detect the signal from the transmitter.
- **Volume Control Dial:** Adjusts the sensitivity and volume of the audible tone.
- **LED Light Button:** Turns on/off the integrated LED flashlight.
- **ON/OFF Button:** Powers the receiver on or off.
- **Headphone Jack:** For connecting headphones for clearer audio in noisy environments.
- **Probe Tip:** Used to detect the signal along the cable.

Figure 3: MS6812 units with included carrying case.

4. Specifications

- **Brand:** PEAKMETER
- **Model:** MS6812
- **Material:** ABS+PVC
- **Color:** Black
- **Power Source:** Battery Powered
- **Batteries:** 1x 9V 6F22 battery (for Transmitter), AA batteries (for Receiver).*Batteries not included.*
- **Certifications:** CE, RoHS
- **Approximate Dimensions (Main Unit):** 8.35 in x 4.33 in x 1.57 in (21.2 cm x 11 cm x 4 cm)
- **Approximate Weight (Main Unit):** 5.64 oz (160 g)
- **Primary Functions:** Wire tracking, telephone line testing, continuity testing.

5. Setup

5.1 Battery Installation

1. Locate the battery compartments on both the Transmitter and Receiver units.
2. Open the battery covers.
3. Insert one 9V 6F22 battery into the Transmitter, observing correct polarity.
4. Insert the required AA batteries into the Receiver, observing correct polarity.
5. Close the battery covers securely.

5.2 Connecting Cables

The MS6812 comes with various connection options:

Figure 4: MS6812 with connection cables and headphones.

- **RJ11 Cable:** For connecting to telephone lines.
- **RJ45 Cable:** For connecting to network (LAN) cables.
- **Alligator Clip Cable:** For connecting to bare wires or terminals where standard connectors are not available.

Connect the appropriate cable from the item under test to the corresponding port on the Transmitter (MS6812T).

6. Operating Instructions

6.1 Wire Tracking (Scanning)

1. Connect the cable to be traced to the Transmitter (MS6812T) using the appropriate connector (RJ11, RJ45, or alligator clips).
2. Set the Transmitter's CONT/SCAN switch to the**SCAN** position.

3. Press the **TEST** button on the Transmitter to send a signal. The SCAN LED on the Transmitter should illuminate.
4. Turn on the Receiver (MS6812R) by pressing its **ON/OFF** button.
5. Press the **SCAN** button on the Receiver.
6. Adjust the Volume Control Dial on the Receiver to a suitable sensitivity.
7. Move the Receiver's probe tip along the suspected cable path. A loud audible tone indicates the presence of the signal, helping you locate the cable. The tone will be strongest when the probe is directly over the cable.

6.2 Continuity Testing

1. Connect the cable or wire to be tested to the Transmitter (MS6812T).
2. Set the Transmitter's CONT/SCAN switch to the **CONT** position.
3. Press the **TEST** button on the Transmitter.
4. Observe the LED indicators on the Transmitter:
    - If the **CONT** LED illuminates, it indicates continuity (a closed circuit).
    - If the **CONT** LED does not illuminate, it indicates an open circuit or break in the wire.

6.3 Telephone Line Testing

1. Connect the telephone line to the RJ11 port on the Transmitter (MS6812T).
2. Set the Transmitter's CONT/SCAN switch to the **CONT** position.
3. Press the **TEST** button on the Transmitter.
4. Observe the LED indicators on the Transmitter:
    - The **phone icon LED** will indicate the status of the telephone line (e.g., ringing, busy, idle). Refer to the specific LED patterns for detailed status interpretation (if provided on the device itself).

6.4 Using the LED Light

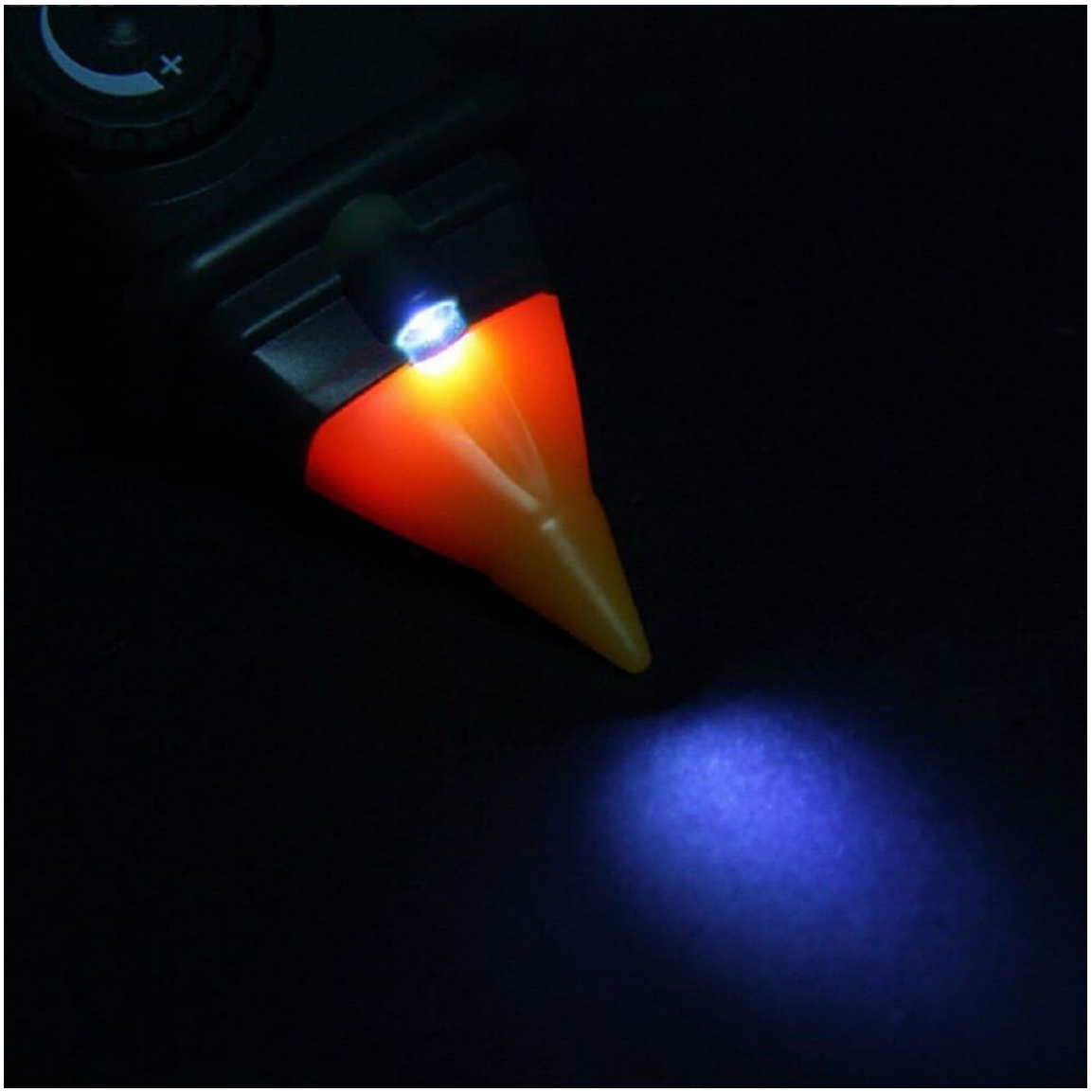

Figure 5: Receiver's LED light in operation.

The Receiver unit (MS6812R) includes an integrated LED flashlight for working in dimly lit areas.

- To turn on the LED light, press the **LED Light Button** on the Receiver.
- Press the button again to turn off the LED light.

7. Maintenance

7.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents, as these may damage the casing or internal components.

7.2 Storage

When not in use for extended periods, remove the batteries from both units to prevent leakage and store the device in its carrying case in a cool, dry place, away from direct sunlight and extreme temperatures.

7.3 Battery Replacement

Replace batteries when the device's performance degrades or if the low battery indicator (if present) illuminates. Always use fresh batteries of the specified type and dispose of old batteries responsibly.

8. Troubleshooting

- **No Power:** Check battery installation and ensure batteries are fresh.
- **No Signal During Wire Tracking:** Ensure the Transmitter is powered on and in SCAN mode. Verify the cable connection. Adjust the Receiver's volume/sensitivity.
- **Inaccurate Continuity Test:** Ensure proper connection to the wire/cable. Check for breaks or shorts in the cable itself.
- **Weak Signal:** Replace batteries in both units. Ensure the cable is not excessively long or shielded, which can attenuate the signal.

9. Warranty and Support

For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support or further assistance, please contact the manufacturer or your local distributor.