Fafeicy FY868

Fafeicy FY868 Telephone Network Cable Tester User Manual

Model: FY868

1. INTRODUCTION

The Fafeicy FY868 is a multifunctional handheld cable testing tool designed for telecommunication, wiring, and network maintenance engineers. This device is capable of testing RJ45 and RJ11 cables for continuity, tracing lines, and detecting line levels or polarity. Its comprehensive features make it an essential tool for diagnosing and maintaining network and telephone infrastructure.

Image 1.1: The Fafeicy FY868 Cable Tester in a typical usage scenario, demonstrating its application in network environments.

2. SAFETY INFORMATION

- Always ensure the device is turned off when not in use or when changing batteries.

- Do not expose the device to moisture or extreme temperatures.

- Use only the specified battery types (3xAAA for Emitter, 1x9V for Receiver).

- Avoid direct contact with live circuits unless specifically instructed for testing purposes and with appropriate safety precautions.

- Keep the device away from children.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x Emitter Unit (Battery not included)

- 1 x Receiver Unit (Battery not included)

- 1 x Clip Test Line (Alligator clips)

- 1 x User Manual

- 1 x RJ45 Cable (Color may vary)

- 1 x Cloth Pouch

- 1 x Earphone

Image 3.1: The complete Fafeicy FY868 kit, including the emitter, receiver, and various accessories.

Image 3.2: A closer view of the included accessories: RJ45 cable, RJ11 cable, alligator clip test line, and earphones.

4. PRODUCT OVERVIEW

4.1. Components

The FY868 cable tester consists of two main units: the Emitter and the Receiver.

- **Emitter Unit:** This is the primary unit for generating test signals. It features RJ45 and RJ11 ports, LED indicators for cable status, and a rotary dial for mode selection.
- **Receiver Unit:** This unit is used to detect signals from the Emitter. It has a probe for tracing cables, an ON/OFF switch, a volume control dial, and LED indicators.

4.2. Controls and Ports

Familiarize yourself with the controls and ports on both units:

- **Emitter:**

  - **RJ45 Port:** For connecting Ethernet cables.
  - **RJ11 Port:** For connecting telephone cables.
  - **Rotary Dial:** Selects operating modes (OFF, SCAN, TONE, CONT, TEST).
  - **LED Indicators (1-8, G):** Display cable continuity and status.
  - **ON/OFF Button:** Powers the unit.

- **Receiver:**

  - **Probe:** Used to trace cables and detect signals.
  - **Volume Dial:** Adjusts the audio output for tracing.
  - **ON/OFF Switch:** Powers the unit.
  - **LED Indicators:** Signal strength and status.

Image 4.2: Detailed view of the Emitter's RJ45 and RJ11 ports and the Receiver's main controls.

5. Setup

5.1. Battery Installation

The FY868 requires batteries for operation. Ensure correct polarity when inserting.

- **Emitter:** Open the battery compartment on the back and insert **three (3) 1.5V AAA batteries**.
- **Receiver:** Open the battery compartment on the back and insert **one (1) 9V 6F22 battery**.

Image 5.1: Rear view of the Emitter and Receiver, indicating the battery compartment locations.

5.2. Connecting Cables

Depending on the test, connect the appropriate cable to the Emitter unit:

- For RJ45 cables, use the RJ45 port.
- For RJ11 cables, use the RJ11 port.
- For other wires or bare conductors, use the provided alligator clip test line.

6. OPERATING INSTRUCTIONS

6.1. Cable Continuity Test (RJ45/RJ11)

This mode checks for open circuits, short circuits, and cross-connections in network and telephone cables.

1. Connect one end of the RJ45 or RJ11 cable to the corresponding port on the Emitter unit.
2. Connect the other end of the cable to the corresponding port on the Receiver unit.
3. Turn on both the Emitter and Receiver units.
4. Set the Emitter's rotary dial to the "TEST" position.
5. Observe the LED indicators (1-8, G) on both units.

    - **Normal Connection:** LEDs on both units will light up sequentially from 1 to 8 (and G for shielded cables), indicating proper continuity.
    - **Open Circuit:** If a specific LED on the Receiver does not light up, it indicates an open circuit on that wire.
    - **Short Circuit:** If multiple LEDs light up simultaneously or in an incorrect sequence, it may indicate a short circuit.
    - **Cross-Connection:** If the sequence of LEDs on the Receiver differs from the Emitter, it indicates a cross-connection.

6.2. Line Tracing / Finding

This mode helps locate a specific cable among a bundle or trace its path.

1. Connect the cable to be traced to the appropriate port on the Emitter unit (RJ45, RJ11, or alligator clips).
2. Turn on the Emitter unit and set its rotary dial to "SCAN" or "TONE".
3. Turn on the Receiver unit and adjust its volume dial to a comfortable level.
4. Use the Receiver's probe to scan along the suspected path of the cable or among a bundle of cables.
5. A distinct audible tone will be emitted by the Receiver when it detects the signal from the Emitter, indicating the presence of the target cable. The tone will be loudest when directly over the cable.

6. For noisy environments, use the included earphones for clearer detection.

6.3. Line Level and Polarity Detection

The FY868 can detect the line level and polarity of telephone lines.

1. Connect the alligator clip test line to the Emitter unit.

2. Connect the alligator clips to the two wires of the telephone line.

3. Set the Emitter's rotary dial to the appropriate detection mode (refer to the Emitter's markings for specific line level/polarity functions, often integrated with SCAN/TONE modes).

4. Observe the LED indicators on the Emitter to determine the line level (e.g., ringing, busy) and polarity (positive/negative).

7. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.

- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.

- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears or if the device performance degrades. Dispose of old batteries according to local regulations.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power / Device does not turn on	Dead or incorrectly installed batteries.	Check battery polarity; replace with fresh batteries.
No tone during line tracing	Emitter not in SCAN/TONE mode; Receiver volume too low; Cable not connected properly; Cable is too far or deeply embedded.	Ensure Emitter is in SCAN/TONE mode; Increase Receiver volume; Reconnect cable; Move Receiver closer to the cable.
Incorrect cable test results	Poor cable connection; Damaged cable; Incorrect mode selected.	Ensure cables are fully inserted; Inspect cable for damage; Verify Emitter is in TEST mode.
Interference during tracing	Electromagnetic interference from other devices.	Move away from sources of interference; Use earphones for clearer audio.

9. SPECIFICATIONS

Feature	Specification
Work Temperature	0°C to 40°C (32°F to 104°F), max 80% relative humidity (non-condensing)
Storage Temperature	-10°C to 50°C (14°F to 122°F), max 80% relative humidity (non-condensing, no battery)
Altitude	Up to 2000 meters

Feature	Specification
Type of Anti-explosion	IP 40
Sending Distance	100 meters
Emitter Battery	3 x 1.5V AAA (not included)
Receiver Battery	1 x 9V 6F22 (not included)
Item Color	Green
RJ45 Cable Length (included)	16.8 cm (6.6 inches)
Weight (approx.)	360g (12.7 oz)
Product Dimensions (approx.)	3.94 x 3.94 x 3.94 inches

10. Warranty and Support

For warranty information or technical support, please refer to the contact details provided by your retailer or visit the official Fafeicy brand store. Keep your purchase receipt as proof of purchase.
Fafeicy Brand Store: https://www.amazon.com/stores/Fafeicy/page/474860D8-20D1-45E5-B359-95F73FEDCEA4