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› TESMEN TLP-900AR Network Cable Tester User Manual

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TESMEN TLP-900AR Network Cable Tester User Manual

Model: TLP-900AR

Brand: TESMEN

INTRODUCTION

The TESMEN TLP-900AR is a multi-functional network cable tester designed for efficient wire maintenance and sorting. It combines cable tracking, line positioning, continuity testing, and NCV (Non-Contact Voltage) functions. This device is suitable for various cable types including CAT5, CAT6, POE, STP, Ethernet, and telephone lines, making it an essential tool for network installation and troubleshooting.



The TESMEN TLP-900AR Network Cable Tester consists of a transmitter (TLP-900A) and a receiver (TLP-900R) unit, designed for comprehensive cable testing.

SAFETY INFORMATION

- Always read and understand this manual before operating the device.
- The device features 60V resistant anti-burning protection. However, for optimal safety and to avoid signal interference, it is recommended to disconnect power from cables before testing.
- Use the NCV function to identify live wires and sockets before proceeding with any work to prevent electrical hazards.
- Do not attempt to repair or modify the device. Refer all servicing to qualified personnel.
- Keep the device away from water and extreme temperatures.



The device is designed with 60V resistant anti-burning protection to safeguard against accidental damage from higher voltages, protecting both the device and the user. It is recommended to disconnect power during cable testing to avoid signal interference.

PACKAGE CONTENTS

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

- 1 x TLP-900A Emitter (Transmitter)
- 1 x TLP-900R Receiver
- 1 x RJ45 Patch Cable
- 1 x RJ11 Patch Cable
- 1 x Alligator Clip RJ11 Patch Cable
- 1 x Storage Case
- 1 x User Manual
- 2 x 9V Batteries



The package includes the TLP-900A Emitter, TLP-900R Receiver, one RJ45 Patch Cable, one RJ11 Patch Cable, one Alligator Clip RJ11 Patch Cable, a storage case, a user manual, and two 9V batteries.

PRODUCT OVERVIEW

Familiarize yourself with the components and controls of the TLP-900AR tester.

Versatile for Multiple Application



This diagram illustrates the various components of the TLP-900AR, including RJ45 and RJ11 ports, power indicators, function buttons, scan/NCV buttons, sensitivity adjustment knob, and LED indicators for line sequence, pairing, and fault detection.

SETUP

Battery Installation

Both the TLP-900A Emitter and TLP-900R Receiver require one 9V battery each for operation. To install:

1. Locate the battery compartment cover on the back of each unit.

2. Slide or unclip the cover to open the compartment.
3. Insert a 9V battery, ensuring the correct polarity (+/-) alignment.
4. Close the battery compartment cover securely.



Insert the two included 9V batteries into the designated compartments on both the transmitter and receiver units, ensuring correct polarity.

OPERATING INSTRUCTIONS

1. Cable Tracing (Scan Mode)

This function helps locate specific cables within bundles, behind walls, or under floors.

1. Connect one end of the cable to be traced to the RJ45 or RJ11 port on the TLP-900A Emitter.
2. Turn on the TLP-900A Emitter and select the 'SCAN' mode.
3. Turn on the TLP-900R Receiver and adjust its sensitivity using the rotary knob.
4. Use the inductive probe of the receiver to scan along the suspected cable path. The receiver will emit an audible tone and/or light indication when it detects the signal from the emitter.



Connect the transmitter to one end of the cable. Use the receiver's inductive probe to trace the cable, identifying its path and location. The device supports tracing UTP, STP, and PoE cables.

2. Cable Fault Testing (Continuity, Short, Open, Crossover)

This mode checks the integrity of network and telephone cables.

1. Connect one end of the cable to the RJ45 or RJ11 port on the TLP-900A Emitter and the other end to the corresponding port on the TLP-900R Receiver.
2. Turn on both units. The LED indicators on the emitter will sequentially light up, indicating the status of each wire pair.

3. Observe the LED sequence:

- **Normal Connection:** LEDs light up in sequence (1-8 for RJ45, 2-3 for RJ11).
- **Open Circuit:** An LED fails to light up.
- **Short Circuit:** Two or more LEDs light up simultaneously or irregularly.
- **Crossover:** LEDs light up in a non-standard sequence.



The tester can detect common cable faults such as short circuits, open circuits, and crossover wiring. LED indicators on the transmitter visually represent the type of fault detected.

3. QC RJ45 Crimping Inspection

This feature allows for quick verification of RJ45 connector crimp quality.

1. Insert a newly crimped RJ45 connector into the dedicated 'QC' port on the TLP-900A Emitter.
2. The emitter's LEDs will provide immediate feedback. A red light indicates an abnormal crimp, while a white light indicates a good connection.



Insert a crimped RJ45 connector into the QC port on the transmitter. The LED indicators will provide immediate feedback on the quality of the crimp, with red indicating an issue and white indicating a good connection.

4. NCV Function (Non-Contact Voltage)

The receiver can detect live AC voltage without direct contact.

1. Press the 'NCV' button on the TLP-900R Receiver.

2. Bring the tip of the receiver close to an electrical outlet or live wire.
3. The receiver will indicate the presence of AC voltage through an audible alarm and/or visual indicator.



The receiver features a Non-Contact Voltage (NCV) function to identify live wires and electrical sockets, enhancing safety during operation.

5. Telephone Line Polarity Test

The TLP-900AR can identify the status of telephone lines.

- Connect the RJ11 cable to the telephone line and the emitter.
- The device can identify different states such as standby, off-hook, and ringing, providing insight into the line's condition.

6. Adjusting Sensitivity

The receiver's sensitivity can be fine-tuned for precise cable location.

- **Clockwise Rotation:** Increases sensitivity for faster cable locating over longer distances or through obstacles.
- **Counter-clockwise Rotation:** Decreases sensitivity for more precise pinpointing of a cable in a dense bundle.

A hand is holding the green receiver over a bundle of cables. The receiver's tip is pointing towards the cables. The background is dark, and the receiver is illuminated. To the left of the receiver, there is a diagram showing two green rotary knobs with blue arrows indicating clockwise and counter-clockwise rotation. The text next to the diagram explains the sensitivity adjustment.

Adjustable Sensitivity of the Received Signal

Clockwise:
Higher sensitivity for faster cable locating.

Counterclockwise:
Lower sensitivity for more precise pinpointing

The receiver's sensitivity can be adjusted using the rotary knob. Turn clockwise for higher sensitivity to quickly locate cables, and counter-clockwise for lower sensitivity for more precise pinpointing.

7. Built-in LED Light

The receiver is equipped with an LED light for improved visibility.

- Press the 'LAMP' button on the TLP-900R Receiver to turn on the built-in LED light.
- This feature is useful for working in dimly lit environments such as server racks or behind furniture.

Cable Fault Testing

Detect short circuits, open circuits, crossings, and open circuits



Shotred Cable



Cable Break



Cable Crossover

- When the line is not connected, the cable failure represented by the corresponding indicator light

The receiver unit includes a built-in LED light to illuminate dark working areas, improving visibility during cable tracing and testing.

APPLICATIONS

The TESMEN TLP-900AR is versatile and suitable for various professional and home applications:

- **Home Networking:** For setting up or troubleshooting home network connections.
- **Office Server Rooms:** Essential for managing and maintaining complex server room cabling.
- **Engineering Line Installation:** Aids in the installation and verification of new cable infrastructure.



LED LIGHT



BUILT-IN LED LIGHT

Light up dark working place

The TESMEN TLP-900AR is suitable for a wide range of applications, from home networking to professional engineering and server room maintenance.

MAINTENANCE

- **Automatic Shut-off:** The device will automatically power off after more than 30 minutes of inactivity to conserve battery life.
- **Low Battery Indicator:** The power indicator will flash when the battery level is too low for normal operation. Replace batteries promptly.

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in its provided storage case in a cool, dry place when not in use.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Device not turning on	Dead or incorrectly installed batteries.	Check battery polarity; replace with fresh 9V batteries.
No signal during cable tracing	Emitter not in SCAN mode; receiver sensitivity too low; cable disconnected.	Ensure emitter is in SCAN mode. Increase receiver sensitivity. Verify cable connection to emitter.
Incorrect fault detection	Poor cable connection; damaged cable.	Ensure cables are fully inserted into ports. Inspect cable for visible damage.
Inaccurate NCV readings	Interference from other electrical sources.	Move away from other electrical devices; re-test in a clearer area.

SPECIFICATIONS

Feature	Detail
Model Number	TLP-900AR
Manufacturer	TESMEN
Functions	Cable Tracking, Line Positioning, Continuity, QC RJ45, NCV, Telephone Line Polarity
Supported Cables	CAT5, CAT6, POE, STP, RJ11, RJ45
Power Source	2 x 9V Batteries (included)
Battery Cell Type	Zinc Carbon
Min. Operating Voltage	9 Volts
Item Weight	540 g
Parcel Dimensions	23.6 x 15.7 x 6.4 cm
Measurement Accuracy (Crimp)	<1 second response time
Safety Standards	CE, RoHS
Color	Green

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact information provided in the product packaging or contact TESMEN customer support directly. Keep your purchase receipt as proof of purchase.