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ETURBEV LA-1012

ETURBEV LA-1012 Multifunctional Cable Detector User Manual

Model: LA-1012

1. Introduction

The ETURBEV LA-1012 Multifunctional Cable Detector is a professional instrument designed for efficient and accurate cable line measurement and diagnosis in various environments. This device is essential for tasks such as identifying wires within walls, locating short circuits or breaks in cables, tracing underground conductors, and detecting electrical leads connected to circuit breakers. It is also suitable for tracking metal water pipes and heating pipes, and detecting short circuits in underfloor heating systems.
The LA-1012 system consists of a transmitter (LA-1012B) and a receiver (LA-1012), working together to provide comprehensive cable detection capabilities. Its robust design and advanced features make it a valuable tool for electrical installation, maintenance, and fault diagnosis.

2. Safety Information

Please read all safety instructions carefully before operating the device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always ensure the device is in good working condition before use. Do not use if damaged.
- Do not attempt to open or repair the device. Refer all servicing to qualified personnel.
- Wear appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses, when working with electrical systems.
- Never use the device on circuits exceeding its specified voltage rating.
- Be aware of live circuits. The device can detect live lines, but extreme caution is always necessary.
- Keep the device away from water and moisture.
- Ensure proper battery installation and replacement. Do not mix old and new batteries or different types of batteries.

3. Product Overview

The ETURBEV LA-1012 system comprises two main units: the Transmitter (LA-1012B) and the Receiver (LA-1012).



Figure 1: ETURBEV LA-1012 Cable Detector, showing both the transmitter (left) with its connection leads and the receiver (right) with its display and controls.

3.1. Transmitter (LA-1012B)

The transmitter unit generates a signal that is injected into the cable or circuit being tested. It features a display showing the transmission level, transmission code, and foreign voltage presence. It connects to the circuit using the provided test leads.

3.2. Receiver (LA-1012)

The receiver unit detects the signal emitted by the transmitter. It features a digital display that shows the reception level, reception code, and main voltage indication. The receiver also includes controls for sensitivity adjustment, a flashlight function for low-light conditions, and an acoustic response signal.



Figure 2: The ETURBEV LA-1012 Receiver unit, demonstrating its ergonomic design and display while being held in a user's hand.

4. Setup

Before using the LA-1012 cable detector, ensure proper battery installation.

4.1. Battery Installation

Note: Batteries are not included in the standard package and must be purchased separately.

1. Locate the battery compartment on the back of both the Transmitter and Receiver units.
2. Open the battery compartment cover.
3. Insert the required batteries (e.g., 9V alkaline batteries, typically) according to the polarity markings (+/-) inside the compartment.
4. Close the battery compartment cover securely.

4.2. Initial Power On

Press the power button on both the Transmitter and Receiver units to turn them on. The displays should illuminate, indicating the units are ready for operation.

5. Operating Instructions

The LA-1012 offers various functions for cable detection and fault diagnosis.



Figure 3: Diagram highlighting key features of the ETURBEV LA-1012 Cable Detector, including digital encoder signals, expandability with additional transmitters, automatic/manual sensitivity adjustment, and flashlight function.

5.1. Cable Tracking and Routing

1. Connect the Transmitter (LA-1012B) to the cable or circuit you wish to track. Use the red lead for the live/phase conductor and the black lead for neutral/ground, or connect across the two ends of a disconnected cable.
2. Ensure the Transmitter is powered on and transmitting a signal (indicated on its display).
3. Turn on the Receiver (LA-1012) and select the appropriate mode (if applicable).

4. Move the Receiver along the suspected path of the cable. The signal strength indicator on the Receiver's display will increase as you get closer to the cable.
5. Adjust the sensitivity of the Receiver (automatically or manually) to pinpoint the exact location of the cable.

5.2. Detecting Interruptions and Short Circuits

For detecting breaks or short circuits in cables (e.g., in-wall or underground):

1. Connect the Transmitter to one end of the cable. For a short circuit, connect across the two conductors. For an open circuit, connect to one conductor and ground.
2. Trace the cable with the Receiver as described in Section 5.1.
3. An abrupt drop or loss of signal indicates a break in the cable. A strong signal where it shouldn't be (e.g., between two conductors that should be isolated) may indicate a short circuit.

5.3. Fuse and Circuit Breaker Assignment

To identify which fuse or circuit breaker controls a specific circuit:

1. Connect the Transmitter to an outlet or light fixture on the circuit in question.
2. Go to the fuse box or circuit breaker panel.
3. Scan each fuse or circuit breaker with the Receiver. The one that shows the strongest signal is the correct one.

5.4. Flashlight Function

The Receiver unit is equipped with a flashlight function for use in low-light conditions. Activate it by pressing the designated button (refer to the unit's markings).

5.5. Acoustic Response Signal

The Receiver provides an acoustic signal to indicate signal detection. This can be useful for hands-free operation or when the display is not easily visible. The acoustic response can typically be turned on or off.

6. Maintenance

6.1. Cleaning

Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the device is dry before storage or next use.

6.2. Battery Replacement

When the battery indicator on either unit shows low power, replace the batteries promptly to ensure accurate readings and prevent device malfunction. Refer to Section 4.1 for battery installation instructions.

6.3. 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.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power/Display off	Dead or incorrectly installed batteries.	Check battery polarity; replace batteries.
Weak or no signal detection	Transmitter not connected properly or not powered on; Receiver sensitivity too low; Cable too deep or shielded.	Ensure Transmitter is on and connected; Increase Receiver sensitivity; Try different connection points for Transmitter.
Inaccurate readings	Interference from other electrical sources; Low battery.	Move away from other electrical devices; Replace batteries.
Transmitter display shows "Foreign Voltage"	Voltage present on the line being tested.	Proceed with caution. Ensure safety protocols are followed when working with live circuits.

8. Specifications

Model: LA-1012

Brand: ETURBEV

Origin: Mainland China

Certification: CE

DIY Supplies: Electrical

Item Weight: Approximately 50 Grams (individual unit, without batteries)

Features:

- Conductor detection (in-wall, underground)
- Interruption and short circuit detection
- Fuse and circuit assignment
- Detection of underfloor heating shorts
- Tracking metal water/heating pipes
- Automatic/manual transmission sensitivity adjustment
- Acoustic response signal
- Automatic shutdown function
- Backlight display
- Flashlight function

9. Warranty Information

This product is covered by a standard manufacturer's warranty. Please refer to your purchase documentation or contact your retailer for specific warranty terms and conditions. The warranty typically covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized repairs, or normal wear and tear.

10. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact the retailer from

whom you purchased the ETURBEV LA-1012 Cable Detector. You may also visit the official ETURBEV website for further support resources, if available.

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