

EVTSCAN T-02A

EVTSCAN T-02A Non-Contact Voltage Tester User Manual

Model: T-02A

1. INTRODUCTION

Thank you for choosing the EVTSCAN T-02A Non-Contact Voltage Tester. This device is designed for safe and efficient detection of AC voltage without direct contact, featuring an infrared pointing function and an LED flashlight for enhanced usability. Please read this manual thoroughly before operation to ensure proper use and to prevent potential hazards.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Failure to follow these instructions may result in serious injury or death.

- Always assume circuits are live until proven otherwise.
- Do not use the side probe when measuring to avoid electric shock hazards.
- Do not use the tester if it appears damaged or is not operating correctly.
- Do not operate the tester in wet environments or with wet hands.
- Always wear appropriate personal protective equipment (PPE) when working with electricity.
- The tester is designed for AC voltage detection only. Do not attempt to measure DC voltage.
- Keep out of reach of children.

3. PRODUCT OVERVIEW

The EVTSCAN T-02A is a compact, pen-style non-contact voltage tester equipped with advanced features for electrical professionals and DIY enthusiasts. Its robust ABS construction ensures durability, while the non-contact design prioritizes user safety.

Key Features:

- **Non-Contact Induction Test:** Safely detects AC voltage without direct contact.
- **Dual Sensitivity Range:** High sensitivity (12V-1000V) and Low sensitivity (48V-1000V) for various applications.
- **Infrared Pointing Function:** Aids in precise targeting of test points.
- **LED Flashlight:** Provides illumination in dark working environments.
- **Automatic Shutdown:** Conserves battery life by powering off after 5 minutes of inactivity.
- **Portable Design:** Small size and lightweight for easy carrying.







Figure 1: Front view of the EVTSCAN T-02A Non-Contact Voltage Tester, showing the power button, sensitivity button, and flashlight/infrared button.

4. SPECIFICATIONS

Parameter	Value
Model	T-02A
Material	ABS
Power Supply	2 x AAA 1.5V batteries (not included)
AC Voltage Range (High Sensitivity)	12V ~ 1000V (50/60Hz)
AC Voltage Range (Low Sensitivity)	48V ~ 1000V (50/60Hz)
Automatic Shutdown	After 5 minutes of no operation
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Humidity	≤95%
Altitude	≤2000 meters
Special Features	Infrared pointing function, LED flashlight lighting

5. SETUP

5.1 Battery Installation

1. Unscrew the battery cap at the bottom of the tester.
2. Insert two (2) AAA 1.5V batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
3. Replace the battery cap and screw it securely.

Note: Always use new batteries of the same type. Remove batteries if the device will not be used for an extended period.



Figure 2: Side view of the tester, indicating the battery compartment and polarity markings.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

- To power on, press the red power button (U). The indicator light will illuminate.
- To power off, press and hold the red power button (U) for approximately 2 seconds.
- The device will automatically shut down after 5 minutes of inactivity to save battery life.

6.2 Sensitivity Adjustment

- Press the green H/L button to switch between High Sensitivity (12V-1000V) and Low Sensitivity (48V-1000V).
- High sensitivity is suitable for detecting low voltage circuits or tracing wires behind walls.
- Low sensitivity is ideal for general voltage detection in outlets and power cords, reducing false positives from ambient electrical fields.

6.3 Non-Contact Voltage Detection

1. Ensure the tester is powered on and the desired sensitivity mode is selected.
2. Place the tip of the tester near the wire, outlet, or electrical component you wish to test.
3. If AC voltage is detected, the tester's indicator light will flash and an audible beep will sound. The frequency of flashes and beeps increases with higher voltage or closer proximity to the voltage source.

6.4 Infrared Pointing Function and LED Flashlight

- Press the green flashlight/infrared button (Y/A) once to turn on the LED flashlight. This illuminates the work area.
- Press the flashlight/infrared button (Y/A) a second time to activate the infrared pointing function. This helps in precisely locating test points.
- Press the flashlight/infrared button (Y/A) a third time to turn off both the flashlight and infrared function.



Figure 3: Angled view of the tester, highlighting the warning label and control buttons.

7. MAINTENANCE

- **Cleaning:** Wipe the tester with a dry, clean cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries when the low battery indicator appears or if the tester does not power on. Follow the battery installation steps in Section 5.1.
- **Storage:** Store the tester in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.

8. TROUBLESHOOTING

- **Tester does not power on:** Check battery installation and ensure batteries are not depleted. Replace if necessary.
- **No voltage detection:** Ensure the tester is powered on and the tip is close enough to the voltage source. Check sensitivity setting (try High Sensitivity).

- **False positives/inconsistent readings:** Ensure you are not using the side probe. Switch to Low Sensitivity if in an area with strong ambient electrical fields. Ensure proper grounding of the circuit being tested.

9. WARRANTY AND SUPPORT

EVTSCAN products are manufactured to high-quality standards. For warranty information or technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your purchase receipt as proof of purchase.

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