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Truper PROVO-1

TRUPER PROVO-1 AC/DC Digital Voltage Tester User Manual

Model: PROVO-1 | Brand: Truper

Introduction

Thank you for choosing the TRUPER PROVO-1 AC/DC Digital Voltage Tester. This compact and versatile tool is designed for quick and reliable voltage detection in both AC and DC circuits, as well as non-contact breakpoint detection. Please read this manual thoroughly before using the device to ensure safe and effective operation.

Safety Information

Always observe basic safety precautions when using electrical testing equipment to reduce the risk of fire, electric shock, and personal injury. This device is intended for use by qualified personnel or under their direct supervision.

- **Read all instructions:** Before using the tester, read and understand all safety information and operating instructions in this manual.
- **Inspect before use:** Before each use, inspect the tester for any signs of damage. Do not use if the casing or tip is cracked or damaged.
- **Do not exceed rated voltage:** Never attempt to test voltages beyond the specified range of the device (12V-220V AC/DC).
- **Use appropriate personal protective equipment (PPE):** Always wear safety glasses and insulated gloves when working with electrical circuits.
- **Avoid wet conditions:** Do not use the tester in wet environments or with wet hands.
- **Verify operation:** Before testing an unknown circuit, always test the device on a known live circuit to confirm its proper operation.
- **Do not rely solely on non-contact detection:** Non-contact detection is for preliminary indication only. Always verify with direct contact testing where appropriate and safe.
- **Keep out of reach of children:** This is not a toy.

Product Overview

The TRUPER PROVO-1 is a compact and easy-to-use digital voltage tester. Its main components and features are illustrated below:



Figure 1: Key components of the TRUPER PROVO-1 Digital Voltage Tester. The device features a clear LCD display for voltage indication, two buttons for direct and non-contact testing, a convenient pocket clip for portability, and a durable screwdriver tip for practical use.

Features:

- **Digital LCD Display:** Provides clear indication of detected voltage ranges.
- **AC/DC Voltage Testing:** Capable of testing both alternating current and direct current from 12V to 220V.
- **Non-Contact Breakpoint Detection:** Identifies live wires and locates breaks in insulated cables without direct contact.
- **Integrated Screwdriver Tip:** Doubles as a small screwdriver for convenience.
- **Pocket Clip:** For easy carrying and accessibility.

Setup

The TRUPER PROVO-1 Digital Voltage Tester is designed for immediate use right out of the packaging. It does not require user-installed batteries, as it operates using an internal, non-replaceable power source that is charged by the

circuit being tested or has a long-life internal battery. Simply remove the tester from its packaging, and it is ready for operation.

Operating Instructions

1. Direct Voltage Test (AC/DC)

This function is used to directly measure voltage in electrical circuits.

1. Ensure the tester is clean and undamaged.
2. Press and hold the **"Prueba directa"** (Direct Test) button, located at the top of the tester.
3. Carefully touch the metal screwdriver tip of the tester to the conductor (e.g., wire, terminal) you wish to test.
4. Observe the LCD display. The tester will illuminate segments corresponding to approximate voltage ranges (e.g., 12V, 36V, 55V, 110V, 220V). The highest illuminated segment indicates the approximate voltage present.
5. For AC circuits, you can identify the live (phase) wire by the highest voltage reading, typically around 110V or 220V for household circuits. The neutral wire will show a significantly lower or no reading.
6. Release the button when testing is complete.

2. Non-Contact Breakpoint Detection

This function allows for quick detection of live wires and breaks in insulated cables without direct contact.

1. Press and hold the **"Punto de Ruptura"** (Breakpoint) button, located below the direct test button.
2. Move the tip of the tester along the insulated cable or near the electrical source.
3. If current is detected, a "lightning bolt" symbol will appear on the LCD display. This indicates the presence of voltage.
4. To locate a break in a cable, apply power to one end of the cable and move the tester along its length while holding the "Punto de Ruptura" button. The lightning bolt symbol will disappear at the point of the break.
5. Note that this function is best suited for individual, unbundled wires. External magnetic fields or static electricity may sometimes trigger false positives. Allow the display to clear before re-testing if this occurs.
6. Release the button when testing is complete.

3. Screwdriver Function

The metal tip of the tester can be used as a small flat-head screwdriver for light-duty tasks. Ensure no voltage is present before using it as a screwdriver on any electrical components.

Maintenance

The TRUPER PROVO-1 Digital Voltage Tester requires minimal maintenance to ensure its longevity and accurate performance.

- **Cleaning:** Wipe the exterior of the tester with a clean, dry, soft cloth. Do not use abrasive cleaners, solvents, or immerse the device in water.
- **Storage:** Store the tester in a cool, dry place, away from direct sunlight and extreme temperatures. Keep it away from strong magnetic fields.
- **Battery:** The device contains an internal, non-replaceable battery. Do not attempt to open the casing or replace the battery.
- **Service:** There are no user-serviceable parts inside the tester. Any repairs should only be performed by qualified service personnel.

Troubleshooting

If you encounter issues with your TRUPER PROVO-1 tester, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display does not light up during direct test.	No voltage present in the circuit, poor contact, or device malfunction.	Ensure firm contact with the conductor. Test on a known live circuit to verify tester functionality. If still no display, the device may be faulty.
Inconsistent or no "lightning bolt" symbol during breakpoint detection.	Cable break is not present, cable is not live, or interference from external fields.	Ensure the cable is live. Move the tester slowly along the cable. Avoid strong magnetic fields or static. This function works best on single, unbundled wires.
Readings seem inaccurate or fluctuate.	Tester provides approximate voltage ranges, not precise measurements. Poor contact.	Understand that the tester indicates voltage ranges (e.g., 12V, 36V, 55V, 110V, 220V), not exact values. Ensure good, firm contact with the conductor.

Specifications



Figure 2: Dimensions of the TRUPER PROVO-1 Digital Voltage Tester, illustrating its compact size.

- **Model:** PROVO-1
- **Brand:** Truper
- **Voltage Range:** 12V ~ 220V AC/DC (Alternating Current / Direct Current)
- **Power Source:** Internal, non-replaceable battery (powered by tested circuit or long-life internal cell)
- **Dimensions (L x W x H):** Approximately 9.06 x 3.27 x 1 inches (23 x 8.3 x 2.5 cm)
- **Item Weight:** Approximately 1.1 pounds (0.5 kg)

- **Screwdriver Tip Width:** 3 mm

Warranty and Support

The TRUPER PROVO-1 AC/DC Digital Voltage Tester comes with a**1-year warranty** from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims.
For technical support, warranty service, or inquiries regarding your product, please contact your retailer or the official Truper customer service. Contact information can typically be found on the product packaging or the Truper official website.

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