

## Safety Information

- Never use the tester if it or its test leads appear damaged.
- Never apply more than 600V DC or 600V AC rms. between any terminal and earth ground.
- $\mathbf{\hat{x}}$  If the LED turns on it indicates the presence of voltage at the probe tips.
- When using the probes, do not touch the metal probe tips.
- Disconnect the live test lead before disconnecting the common test lead.
- Before each use, verify the tester's operation by measuring a known voltage.

## **Automatic Operation**

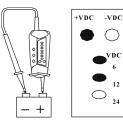
The tester automatically turns on when you place the probes across a complete circuit. The tester selects continuity or DC or AC voltage mode based on the resistance or voltage between the probes. The tester automatically turns off when you remove the probes from the complete circuit.

## Measuring Voltage

Connect test leads across the source or load under measurement, the LED turns on at between 70% and 100% of their rated voltages.

DC Voltage 600V DC maximum

## AC voltage **600V RMS** Maximum 45 Hz to 66 Hz

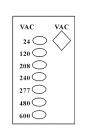


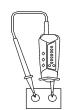
12

24

+VDC -VDC

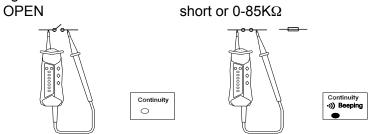
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# **Testing for Continuity**

Turn off circuit power before testing. Beeper indicates shorts lasting 1ms or longer



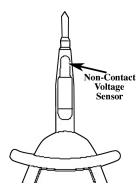
# Non-contact AC Voltage (NCV) detection operating instructions

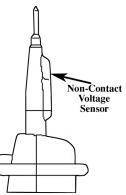
WARNING: Risk of Electrocution. High-voltage circuit, both AC and DC, are very dangerous and should be measured with great care.

WARNING: Risk of Electrocution. Before using to check for voltage in an outlet, always test the Voltage Tester on a known live circuit to verify that the Voltage Tester is working properly.

WARNING: Risk of Electrocution. Keep hands and fingers on the body of the probe and away from the probe tip. Don't touch conductor.

- 1. To check for AC voltage, assure the bottle shaped protrusion of the fixed probe, see figure below, is in close proximity to the hot conductor. The LED in the fixed probe will illuminate.
- To check for the presence of AC voltage at an outlet, using the 2. NCV LED, insert either probe tip into the outlet's hot side. If the black probe is used only the NCV LED will illuminate. If the fixed probe is inserted not only will the NCV LED illuminate but some of the LEDs on the front of the instrument will illuminate also. In this application these LEDs won't indicate the correct voltage and should be ignored.





## SPECIFICATIONS

Function: Accuracy: Range: 24,120,208,240,277,480,600 -30% to 0% of reading AC voltage (V) -30% to 0% of reading DC voltage (V) 6.12.24.36.48.110.220 **Continuity Test**: Audible threshold  $0-85k\Omega$ , Continuity beeper 2KHz Maximum Voltage Between any Terminal and Earth Ground: 600V DC; 600V AC RMS, Overvoltage Category III Input Impedance:  $1M\Omega$ Non-contact AC Voltage Sensitivity: 100 to 600V (50/60 Hz) Non-contact AC Voltage detection distance: <0.5" of NCV sensor **Temperature**: Operating: 5°C (41°F) to 40°C (104°F) Storage : -30°C to +60°C Altitude: Operating: 2000m; Storage: 10,000m Relative Humidity: 80 for temperature up to 31°C decreasing linearly to 50% RH at 40°C Battery Type and Life: AA (2); 350 hours with NEDA 15F or IEC R6 Safety: UL Listed; 61010B-1: For use in Over-Voltage CAT III, 600V environments EMC Regulations: EN50081-1. EN50082-1 **Polution Degree**: 2 For indoor use only.

### **Battery Test and Replacement**

Replace the batteries when touching the leads together no longer turns on the continuity LED.





#### WARRANTY

Congratulations! Your new instrument has been quality crafted according to quality standards and contains quality components and workmanship. It has been inspected for proper operation of all of its functions and tested by qualified factory technicians according to the long-established standards of our company.

Your instrument has a limited warranty against defective materials and/or workmanship for one-year from the date of purchase provided that, in the opinion of the factory, the instrument has not been tampered with or taken apart.

Should your instrument fail due to defective materials, and/or workmanship during this one-year period, a no charge repair or replacement will be made to the original purchaser. Please have your dated bill of sale, which must identify the instrument model number and serial number and call the number listed below:

### Repair Department /ATP – Amprobe, TIF, Promax Miramar, FL 33025 Phone: 954-499-5400 Toll Free: 800-327-5060 Fax: 954-499-5418 Website: www.Amprobe.com

#### Please obtain an RMA number before returning product for repair.

Outside the U.S.A. the local representative will assist you. Above limited warranty covers repair and replacement of instrument only and no other obligation is stated or implied.



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