



VPC-10
Voltage & Continuity
Tester

Users Manual

- Mode d'emploi
- Bedienungshandbuch
- Manual d'Uso
- Manual de uso



VPC-10

Voltage & Continuity Tester

Users Manual

English

May 2010, Rev.2
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Limited Warranty and Limitation of Liability

Your Amprobe product will be free from defects in material and workmanship for 1 year from the date of purchase. This warranty does not cover fuses, disposable batteries or damage from accident, neglect, misuse, alteration, contamination, or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on Amprobe's behalf. To obtain service during the warranty period, return the product with proof of purchase to an authorized Amprobe Test Tools Service Center or to an Amprobe dealer or distributor. See Repair Section for details. THIS WARRANTY IS YOUR ONLY REMEDY. ALL OTHER WARRANTIES - WHETHER EXPRESS, IMPLIED OR STATUTORY - INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, ARE HEREBY DISCLAIMED. MANUFACTURER SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, ARISING FROM ANY CAUSE OR THEORY. Since some states or countries do not allow the exclusion or limitation of an implied warranty or of incidental or consequential damages, this limitation of liability may not apply to you.

Repair

All test tools returned for warranty or non-warranty repair or for calibration should be accompanied by the following: your name, company's name, address, telephone number, and proof of purchase. Additionally, please include a brief description of the problem or the service requested and include the test leads with the meter. Non-warranty repair or replacement charges should be remitted in the form of a check, a money order, credit card with expiration date, or a purchase order made payable to Amprobe® Test Tools.

In-Warranty Repairs and Replacement – All Countries

Please read the warranty statement and check your battery before requesting repair. During the warranty period any defective test tool can be returned to your Amprobe® Test Tools distributor for an exchange for the same or like product. Please check the "Where to Buy" section on www.amprobe.com for a list of distributors near you. Additionally, in the United States and Canada In-Warranty repair and replacement units can also be sent to a Amprobe® Test Tools Service Center (see address below).

Non-Warranty Repairs and Replacement – US and Canada

Non-warranty repairs in the United States and Canada should be sent to a Amprobe® Test Tools Service Center. Call Amprobe® Test Tools or inquire at your point of purchase for current repair and replacement rates.

In USA

Amprobe Test Tools
Everett, WA 98203
Tel: 877-AMPROBE (267-7623)

In Canada

Amprobe Test Tools
Mississauga, ON L4Z 1X9
Tel: 905-890-7600

Non-Warranty Repairs and Replacement – Europe

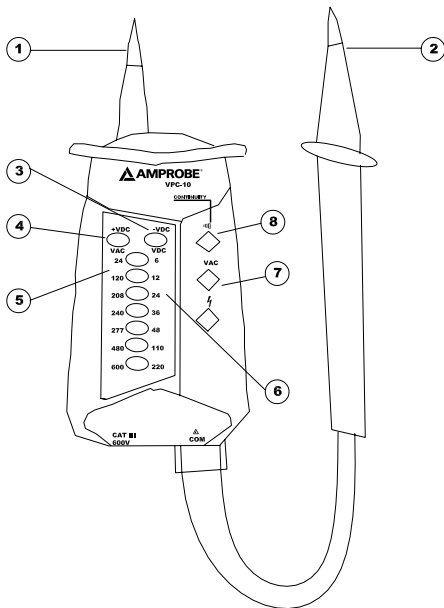
European non-warranty units can be replaced by your Amprobe® Test Tools distributor for a nominal charge. Please check the "Where to Buy" section on www.amprobe.com for a list of distributors near you.

European Correspondence Address*

Amprobe® Test Tools Europe
In den Engematten 14
79286 Glottertal, Germany
Tel.: +49 (0) 7684 8009 - 0

*(Correspondence only – no repair or replacement available from this address. European customers please contact your distributor.)

VPC-10 Voltage & Continuity Tester

















- 1) Measuring Probe (Pos)
- 2) Ground Probe (COM)
- 3) Negative DC voltage Detection LED indication
- 4) Positive DC voltage Detection LED indication
- 5) AC Voltage range
- 6) DC voltage range
- 7) AC voltage Detection LEDs
- 8) Continuity LED indication

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SYMBOLS

	Battery
	Warning! Dangerous Voltage
	Double Insulation
	Caution! Refer to the user's manual before using this Meter.
	Alternating Current (AC).
	Ground (maximum permitted voltage between terminal and ground).
	Direct Current (DC).
	Symbol
	Application around and removal from hazardous live conductors is permitted
	Complies with European Directives
	Do not dispose of this product as unsorted municipal waste
	Conforms to relevant Australian standards
	Underwriters Laboratories. [Note: Canadian and US.]
	Audible tone

WARNING

identifies conditions and actions that could result in serious injury or even death to the user.

CAUTION


identifies conditions and actions that could cause damage or malfunction in the unit.

This manual contains information and warnings that must be followed for operating the tester safely and maintaining the tester in a safe operating condition. If the tester is used in a manner not specified by the manufacturer, the protection provided by the tester may be impaired. Do not use in rainfall!

The tester is protected, against the users, by double insulation per EN61010-1 2nd Ed to CAT III 600V.

⚠ WARNING

To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. To avoid electrical shock hazard, observe the proper safety precautions when working with voltages above 60 VDC or 30 VAC rms. These voltage levels pose a potential shock hazard to the user.

- Keep your hands / fingers behind the hand / finger barriers of the test probes that indicate the limits of safe access of the hand-held part during measurement. Inspect test probes, connectors, and probes for damaged insulation or exposed metal before using the tester. If any defects are found, replace them immediately.
- The voltages marked on the tester are nominal voltages or nominal voltage ranges. The tester shall only be used on installations with the specified nominal voltages or nominal voltage ranges.
- Never apply more than 600V DC or 600V AC rms. between any terminal and earth ground.
-  indicates dangerous voltage present if the LED turns on.
- 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.

UNPACKING AND INSPECTION

Your shipping carton should include:

- 1 VPC-10 Voltage Tester
- 1 Users Manual
- 2 1.5V AAA LR03/NEDA 24A Batteries (Installed)

If any of the items are damaged or missing, return the complete package to the place of purchase for an exchange.

INTRODUCTION

The VPC-10 and voltage tester is designed to be rugged and easy to use for the testing of voltage and continuity. It comes with a buzzer that provides indication of voltage or continuity. Full input protection to CAT III 600V.

- Automatically turns ON and OFF for easy and quick measurements
- Automatically selects AC Voltage, DC Voltage or Continuity
- LED's indicate 7 levels of AC and DC Voltages:
 - Volts (AC) 24, 120, 208, 240, 277, 480, 600
 - Volts (DC) 6, 12, 24, 36, 48, 110, 220
- Continuity buzzer and Visual continuity indication (LED)
- Safety CAT III 600 V

OPERATION

Note: All function operations described hereafter are via the stationary "Yellow" probe for positive (+) polarity and the attached "Black" probe for Ground reference (-), or otherwise specified.

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.

Voltage Measurement *(Refer to Figs 1, 2 and 4)*

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

DC Voltage: 600V maximum

AC Voltage: 600V rms maximum, 45 to 66Hz

Continuity Testing *(Refer to Figs 3)*

Turn off circuit power before testing. Beeper indicates shorts lasting 1ms or longer. Short circuit=0-85K Ω

SPECIFICATION

Function	Range	Accuracy
AC voltage (V)	24,120,208,240, 277, 480,600	-30% to 0% of reading
DC voltage (V)	6,12,24,36,48, 110,220	-30% to 0% of reading

Continuity Test: Audible threshold 0-85kW, Continuity beeper 2KHz

Maximum Voltage Between any Terminal and Earth

Ground: 600V DC; 600V AC rms, Overvoltage Category III

Input Impedance: 1M Ω

Temperature: Operating: -10°C to +50°C (14°F to 122°F),
Storage: -30°C to +60°C (-22°F to 140°F)

Altitude: Operating: 3000m; Storage: 10,000m

Relative Humidity: 90%(0°C-30°C); 75%(30°C-40°C);
45%(40°C-50°C)


Battery Type and Life: AA (2); 350 hours with NEDA 15F
or IEC R6

Safety: Complies with EN61010-1 for use in overvoltage
CAT III environments

EMC Regulations: EN50081-1, EN50082-1

MAINTENANCE AND REPAIR

If there appears to be a malfunction during the operation of the meter, the following steps should be performed in order to isolate the cause of the problem.

1. Check the battery. Replace the battery immediately when the symbol "+" appears on the LCD.
2. Review the operating instructions for possible mistakes in operating procedure.

Except for the replacement of the battery, repair of the meter should be performed only by a Factory Authorized Service Center or by other qualified instrument service personnel.

The front panel and case can be cleaned with a mild solution of detergent and water.

Apply sparingly with a soft cloth and allow to dry completely before using. Do not use aromatic hydrocarbons, Gasoline or chlorinated solvents for cleaning.

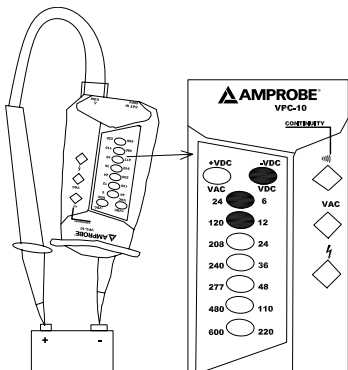


Fig.2/ -VDC Measurement

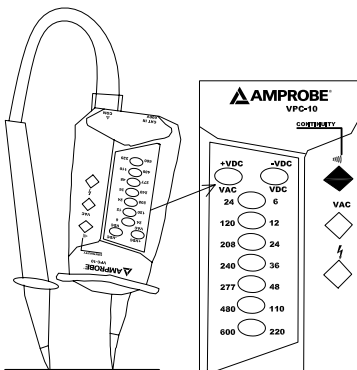


Fig.3/ Continuity Testing

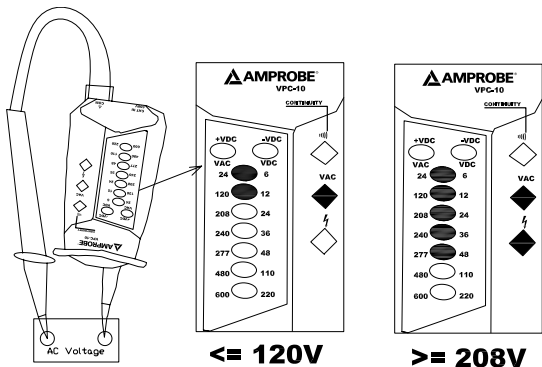


Fig.4 / AC Measurement

>208V both LEDs on

Visit www.Amprobe.com for

- Catalog
- Application notes
- Product specifications
- User manuals



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