



VPC-31 Voltage & Continuity Tester

Rugged and easy to use testers for live voltage and continuity checks. Built in shaker provides the same functionality and feel as older analog solenoid testers with benefit of full input protection to CAT IV 600V / CAT III 1000V.

- Super-bright bi-Color LED's indicates safe and dangerous voltages (above 55VDC or 30VAC)
- Auto hold feature - LED's stay illuminated for 10 sec retaining a reading after the tests are disconnected
- Solenoid tester-like shaker to indicate AC voltage presence
- Automatically turns ON and OFF for easy and quick measurements
- Non-contact voltage detection and GFCI test feature for testing GFCI receptacles and breakers
- Standard detachable test lead (black) for easy replacement with optional longer or specialized probe
- Automatically selects AC Voltage, DC Voltage or Continuity
- LED's indicate 10 levels of AC and DC Voltages::
 - Volts (AC) 24, 48, 120, 208, 240, 277, 347, 480, 600, 1000
 - Volts (DC) 6, 12, 24, 36, 48, 60, 72, 110, 220, 380
- Auto backlit LCD Digital Display for precise voltage measurements
- Continuity buzzer and Visual continuity indication (LED)
- Water and dust proof, IP65 design
- Safety CAT IV 600 V, CAT III 1000 V

No hassle warranty

No waiting.

No shipping charges.



Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: \$500 MSLP limit)



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Data Sheet

Specifications

LCD Display	3 digits 1000 counts In an RF Field of 3V/m, total accuracy = Specified accuracy + 45d. Performance above 3V/m is not specified
Update Rate	5 per second nominal
Operating Temperature	-10°C ~ 55°C (14°F ~ 131°F)
Relative Humidity	Maximum relative humidity 80% for temperature up to 31°C (87°F) decreasing linearly to 50% relative humidity at 55°C (131°F)
Altitude	Operating below 2000m
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F), < 80% R.H. (with battery removed)
Temperature Coefficient	Nominal 0.15 x (specified accuracy)/°C @ (-10°C ~ 18°C or 28°C ~ 55°C), or otherwise specified
Sensing	Average sensing
Type of Protection	IP65
Pollution Degree	2
E.M.C.	Meets EN61326-1:2006 (EN55022, EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11): For both models: Performance is specified in an RF Field of 3V/m. Performance above 3V/m is not specified.
Safety	Meets EN61010-1 and IEC61010-1 2nd Edition (2001)
Measurement Category	CAT III 1000V & CAT IV 600V AC & DC
Transient Protection	8kV lightning surge (1.2/50μs)
Overload Protection	1000VDC & VAC rms
Low Battery	Below approx. 2.4V
Power Supply	Standard 1.5V AAA Size (NEDA 24G or IEC R03) battery X 2; or 1.5V AAA Size (NEDA 24A or IEC LR03) alkaline battery X 2
Power Consumption (typical)	3mA at Power-on ready; 30mA at 1000VAC full LED indication. 75mA at 1000VAC with shaker ON
APO Consumption (typical)	10μA
APO Timing	Idle for 30 seconds
Dimension	233(L) x 57(W) x 40(H)mm (9.17 x 2.24 x 1.57 in)
Weight	Approx. 220 g (0.485 lb)
Special Features	High Input Impedance, Indicator Self-Test, Auto-Hold, Overload-Alert Warning, EF-Detection, Auto Display Backlit, AC-Detection Shaker, Bi-Color LED Hazardous Live Warning, and GFCI Leakage Load
Accessories	Detachable (Black) Test Lead, Screw-on Stationary (Red) Probe, 2 Screw-on 4mm Probe Tips, batteries installed and User's manual

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Data Sheet

Electrical Specification

Accuracy is given as +/- (% of reading digits + number of digits) or otherwise specified @ 23oC +/- 5oC and less than 75% R.H

DC & AC Voltage (LED)

DCV MARKING	Typical Threshold	ACV MARKING	Typical Threshold
6V	5V	24V	19V
12V	10V	48V	38V
24V	19V	120V	96V
36V	30V	208V	166V
48V	42V	240V	224V
60V	54V	277V	259V
72V	66V	347V	312V
110V	91V	480V	414V
220V	176V	600V	540V
380V	304V	1000V	800V

Input Impedance 460k, 160pF nominal

ACV Frequency Response 45Hz ~ 65Hz

Duty ratio Continuous duty

Audible Continuity

Open Circuit Voltage 0.4VDC typical

Audible Threshold between 50k and 2000k

DC & AC Voltage

Range	Typical Threshold	Accuracy
DC 999V	> +5VDC or < -5VDC	1.0%+2d
AC 999V (50Hz/60Hz)	> 15VAC	2.5%+4d

Input Impedance: 460k, 160pF nominal

Duty ratio: Continuous duty

AC Detection Shaker Threshold

Shaker ON > 24VAC nominal

Shaker OFF < 14VAC nominal

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GFCI Leakage Load	GFCI Leakage Load feature is for 120V nominal circuits only. It is disabled above 132V and below 80V
Load Current	7.5 mA typical at 120V
Path Impedance	16 k nominal, PTC protected

Non-Contact EF-Detection

Indication	EF LED flashing & audible beep tones proportional to the field strength
Detection Frequency	50/60Hz
Detection Antenna	Top end of the meter
Probe-Contact EF-Detection	For more precise indication of live wires, such as distinguishing between live and ground connections, use the Red (+) test probe for direct contact measurements.

VPC-31 also displays Bar graph segments proportional to the field strength on LCD. Typical values are shown in the following table:

Typical Non-Contact Voltage Range	LCD Bar Graph Indication
15V to 55V	-
30V to 95V	--
55V to 170V	---
Above 120V	----

Included Accessories

Test Leads
 Carrying Case
 Bead Type,
 Thermocouple with banana plug
 Users Manual



Amprobe® Test Tools

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