

NCV-1020, NCV-1030, NCV-1040 Non-Contact Voltage Probe Series

Check voltage, find cable breaks, identify polarity, and magnetic detection

The Amprobe NCV-1000 Non-Contact Voltage (NCV) tester series provides maximum safety and convenience for detecting AC voltage without interrupting electrical systems. Designed to conveniently fit in your shirt pocket, the NCV-1000 series performs in indoor and outdoor settings. Safety tested to the highest category measurement, CAT IV 1000 V, as well as IP65 water and dust resistant, the NCV-1000 series is fit for the toughest industrial applications.



NCV-1000 Series
Non-Contact Voltage Probe



Non-contact voltage detection
Default: 50-1000 V
High Sensitivity: 12-50 V
(NCV-1030 and NCV-1040 only)

Audible (buzzer) and visual (LED)
voltage indication

Magnetic solenoid testing
(NCV-1040 only)

On/Off switch

Built-in work light
(NCV-1030 and NCV-1040 only)

Additional Features

- **Low battery indication**
(NCV-1030 and NCV-1040 only)
- **Auto power off**
(NCV-1030 and NCV-1040 only)
- **IP65 rated water and dust resistant**

NCV-1040
Non-Contact
Voltage Probe

Safety Certification



All Amprobe tools, including the Amprobe NCV-1000 Series are rigorously tested for safety, accuracy, reliability, and ruggedness in our state-of-the-art test lab. In addition, Amprobe products that measure electricity are listed by a 3rd party safety lab, either UL or CSA. This system assures that Amprobe products meet or exceed safety regulations and will perform in a tough, professional environment for many years to come.



Test wires for AC voltage



Breaker scanning



Test wall sockets for AC voltage



Built-in worklight
(NCV-1030, NCV-1040)

Applications:

- **Detect the presence of AC voltage** in cables, circuit breakers, wall sockets, junction boxes, fuses, extension cords
- **Test voltage** through wire insulation
- **Identify cable breaks** in wires, cords and lightning systems connected in series
- **Identify polarity** (line vs. neutral) of receptacles and cables
- **Detect magnetic solenoid** to diagnose electromagnets and relays (NCV-1040 only)



Specifications

Features	NCV-1020	NCV-1030	NCV-1040
Voltage detection from 50 to 1000 V AC	•	•	•
Audible (buzzer) and visual (LED) voltage indication	•	•	•
On/Off switch	•	•	•
IP65 rated water/dust resistant	•	•	•
CAT IV 1000 V safety rated	•	•	•
Built-in work light	–	•	•
NCV high sensitivity range (12 V to 50 V AC)	–	•	•
Low battery indication	–	•	•
Auto power off	–	•	•
Magnetic solenoid testing	–	–	•
Detailed Specifications			
Operating Voltage Range	50-1000 Vac, 50-400 Hz	12-50 Vac, 50-1000 Vac, 50-400 Hz	12-50 Vac, 50-1000 Vac, 50-400 Hz
Voltage Indication		Bright red LED, buzzer	
Magnetic Field Indication	–	–	Yellow LED
Detection of Magnetic Field	–	–	>2.5 mT
Detection	Illuminates at approximately 0.39 in (10 mm) distance from a wire carrying 120 Vac		
Temperature Range	32 °F to 104 °F (0 °C to 40 °C), ≤ 80% RH		
Storage Conditions	14 °F to 104 °F (-10 °C to 40 °C), ≤ 85% RH		
Operating Altitude	≤ 6561 ft (2000 m)		
Power Supply	2 1.5 V LR03 AAA batteries		
Duty Cycle	Continuous		
Current Consumption	Approx. 80 mA		
Dimensions (L x W x H)	6.14 x 0.92 x 1.08 in (156.2 x 23.5 x 27.5 mm)		
Weight (with batteries installed)	Approx. 0.12 lb (58 g)	Approx. 0.13 lb (60 g)	Approx. 0.133 lb (62 g)
Safety Compliance	IEC 61010-1 3rd Ed., UL61010-1 2nd Ed. and CAN/CSA-C22.2 No. 61010-1-04 +Update No. 1:2008 to CAT IV 1000 V, Pollution degree 2, IP65		
EMC Compliance	IEC 61326-1		
Certifications			

Included: 2 x 1.5 V Batteries (installed), User Manual