

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)

Magnetic solenoid testing
 (NCV-1040 only)

On/Off switch

Audible (buzzer) and visual (LED) voltage indication


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