

## ENGLISH

### NCVT-1P (FIG. 1)

#### GENERAL SPECIFICATIONS

- **Tester Type:** Non-contact voltage detector
- **Voltage Range:** 50 – 1000V AC
- **Frequency Range:** 50 – 500Hz
- **Operating Altitude:** 2,000 meters (6,561 feet)
- **Relative Humidity:** < RH 80% non-condensing
- **Operating Temperature:** 32 to 104°F (0° to 40°C)
- **Storage Temperature:** 32 to 104°F (0° to 40°C)
- **Power:** 2 x 1.5V AAA batteries (included)
- **Dimensions:** 6" x 0.96" x 1.16" x (152 x 24 x 29 mm)
- **Weight:** 2.5 oz. (72 grams)
- **Drop Protection:** 6.6 ft. (2 m)
- **Safety Rating:** CAT IV 1000V
- **Pollution Degree:** 2
- **Standards:** Conforms to UL STD. 61010-1, 61010-2-030  
Certified to CSA STD. C22.2 No. 61010-1, 61010-2-030.

Specifications subject to change.

#### ⚠ WARNINGS

To ensure safe operation and service of the tester, follow these instructions. Failure to observe these warnings can result in severe injury or death.

- It is important that users of this tester read, understand, and follow all warnings, cautions, safety information, and instructions in this manual before operating or servicing this tester. Failure to follow instructions could result in death or serious injury.
- Risk of electric shock and burn. Contact with live circuits could result in death or serious injury.
- Use caution with voltages above 30V AC as a shock hazard may exist.
- A blinking or steady red glow and an audible beep indicate voltage present. If no indication, voltage could still be present.
- Before and after each use, verify operation by testing a known working circuit that is within the rating of this unit.
- Never assume neutral or ground wires are de-energized. Neutral or ground wires in multi-wire branch circuits may be energized when disconnected and must be retested before handling.
- The tester WILL NOT detect voltage if:
  - The wire is shielded.
  - The operator is not grounded or is otherwise isolated from an effective earth ground.
  - The voltage is DC.
- The tester MAY NOT detect voltage if:
  - The circuit that is within the rating of the user is not holding the tester.
  - The user is insulated from the tester with a glove or other materials. Cuts may be.
  - The wire is partially buried or in a grounded metal conduit.
  - The tester is at a distance from the voltage source.
  - The field created by the voltage source is blocked, dampened, or otherwise interfered with.
  - The frequency of the voltage source is outside the range of 50 and 500Hz.
  - The tester is outside of operation conditions (listed in Specifications section).
- Operation may be affected by differences in socket design and insulation thickness and type; tester may not be compatible with some types of standard or tamper resistant (TR) electrical outlets.
- In bright light conditions, the LED visual indicators will be less visible.
- Do not use if "power on" LED is not illuminated.
- Do not use if tester appears damaged or if the tester is not operating properly. If in doubt, replace the tester.
- Do not apply more than the rated voltage as marked on the tester (1000 volts AC).
- Do not apply to uninsulated hazardous live conductors.
- Detection above 50V is specified under "normal" conditions as specified below. The tester may detect at a different threshold at different conditions, or may not detect at all unless:
  - The tip of the tester is within 0.25" of an AC voltage source radiating unimpeded.
  - The user is holding the body of the tester with his or her bare hand.
  - The user is standing on or connected to earth ground.
  - The air humidity is nominal (50% relative humidity).
  - The tester is held still.
- Always wear approved eye protection.
- Comply with local and national safety requirements. The tester may detect at a
- If this product is used in a manner not specified by the manufacturer, protection provided by the product may be affected.

#### ⚠ CAUTION

- **DO NOT** attempt to repair this tester. It contains no serviceable parts.
- **DO NOT** expose tester to extremes in temperature or high humidity.

#### SYMBOLS ON TESTER



**Risk of danger. Important information:** It is important that users of this tester read, understand, and follow all warnings, cautions, safety information, and instructions in this manual before operating or servicing this tester. Failure to follow instructions could result in death or serious injury.



**CAT IV** For measurements performed at the source of low-voltage installation and outside lines.

#### OPERATING INSTRUCTIONS

**TURN UNIT ON:** Press and hold the power button (4) for ½ second, then release. Listen for single-beep sound and watch for the green LED (2) to illuminate.

**TURN UNIT OFF:** Press and hold the power button (4) for ½ second. Listen for a double-beep sound and watch for the "power on" green LED (2) to turn off.

**SILENT MODE:** The tester can be operated with only visual indication of voltage. With the tester powered off, press and hold the power button (4) until the green LED (2) illuminates, then release.

**SYSTEM SELF-TEST:** The "power on" green LED (2) visually confirms battery sufficiency, system integrity, and operation/active mode.

**CHECKING FOR THE PRESENCE OF AC VOLTAGE:** Prior to use, test on known live circuit to verify tester functionality. Place tip (1) of the tester near an AC voltage source. When 50V to 1000V voltage is detected, the tester will emit a high-pitched continuous beep, and the red LED (2) will illuminate.

**AUTO POWER-OFF:** After 4 minutes of non-use, the tester automatically powers off to conserve battery life.

#### CONTINUED ON OTHER SIDE

ce. When 50V to 1000V voltage



NCVT1PKIT

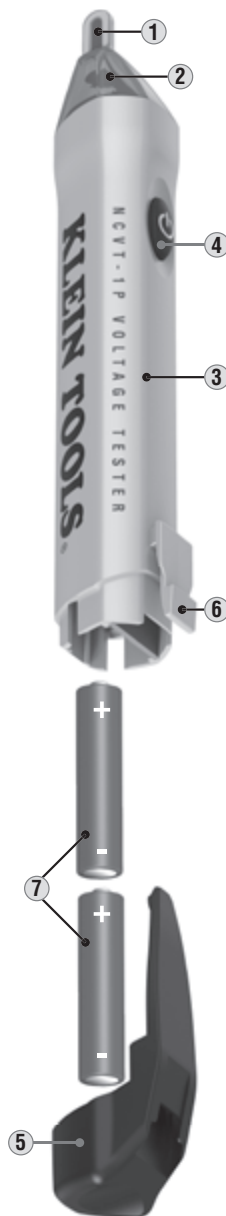
## NON-CONTACT VOLTAGE AND GFCI RECEPTACLE TEST KIT INSTRUCTIONS

FIG. 1 - NCVT-1P

## ENGLISH

1. Tip
2. LEDs
3. Tester body
4. Power button
5. Battery cap
6. Locking tab
7. 2x AAA batteries (included)

**NOTE:** There are no user-serviceable parts inside tester.



CAT IV  
1000V



UK  
CA



Intertek  
5000573

1390617 Rev. 07/22 B



## ENGLISH

### NCVT-1P (FIG. 1)

#### BATTERY REPLACEMENT

Should one of the following scenarios occur, the batteries must be replaced:

**SCENARIO 1:** When powering on the tester: The "power on" LED in the tip of the tester changes from a steady green to a blinking green and a series of beeping sounds is generated, the tester then turns off.

**SCENARIO 2:** When operating the tester: The LEDs dim and the tone fades.

To replace the batteries:

1. Press the locking tab ⑥ inward and remove the battery cap ⑤.
2. Remove and recycle the two spent AAA batteries.
3. Install two new AAA batteries, with the positive (+) side facing into the tester as shown ⑦.
4. Slide the battery cap onto the tester until it snaps back into place.

#### STORAGE

Remove the batteries when not in use for a prolonged period of time. Do not expose to high temperatures or humidity. After a period of storage in extreme conditions exceeding the limits mentioned in the General Specifications section, allow the tester to return to normal operating conditions before using.

#### CLEANING

Be sure tester is turned off and wipe with a clean, dry lint-free cloth. **Do not use abrasive cleaners or solvents.**

#### DISPOSAL / RECYCLE



Do not place equipment and its accessories in the trash. Items must be properly disposed of in accordance with local regulations. Please see [epa.gov/recycle](http://epa.gov/recycle) for additional information.

### RT205 (FIG. 2)

#### GENERAL SPECIFICATIONS

The Klein Tools RT205 is a receptacle tester designed to detect the most common wiring problems in standard receptacles.

**Environment:** Indoor. Do NOT expose to moisture rain or snow.

**Operating Altitude:** 6562 ft. (2000m)

**Operating Temperature:** 32° to 104°F (0°C to 40°C) < 80% R.H.

**Storage Temperature:** 14° to 122°F (-10°C to 50°C) < 70% R.H.

**Weight:** 1.5 oz. (43 g)

**Nominal Voltage:** 110-125V AC at 50/60Hz in 3-wire outlet

**MAINS Supply Voltage Fluctuation:** ± 10%

**Nominal Power:** 0.3W

**Certification:** Conforms to: UL61010-1, 61010-2-30. Certified to: CSA-C22.2 #61010-1, 61010-2-30

**Pollution degree:** 2

**Safety:** CAT II 125V, Class 2, Double Insulation

**Drop Protection:** 6.6 ft. (2 m)

#### WARNINGS

Read, understand, and follow all warnings and instructions before operating testers. Failure to follow instructions could result in death or serious injury. Before each use, verify tester operation by testing on a known live and correctly wired receptacle. Do not use if the tester appears damaged in any way. The tester is intended for indoor use only. Other equipment or devices attached to the circuit being tested could interfere with the tester. Clear the circuit before testing. Always consult a qualified electrician to resolve wiring problems.

#### WIRING CONFIGURATION TESTING

**Conditions indicated:** wiring correct, open ground, reverse polarity, open hot, open neutral and hot/ground reversed.

**Conditions NOT indicated:** quality of ground, multiple hot wires, combinations of defects, reversal of grounded and grounding conductors.

All appliances or equipment on the circuit being tested should be unplugged to help reduce the possibility of erroneous readings.

**STANDARD RECEPTABLES** being tested should be unplugged to help reduce the possibility of erroneous readings.

1. Verify tester operation by testing on a known live and correctly wired receptacle.
2. Plug tester into receptacle.
3. Compare the illuminated lights on the tester to the key code printed on the tester.
4. If the tester indicates that the receptacle is not wired correctly, consult a qualified electrician.

#### GFCI RECEPTABLES

1. Check the GFCI receptacle user manual for information on how the specific receptacle operates prior to using this tester.
2. Insert the tester into the receptacle under test to check for correct wiring. Lights on the tester should illuminate.
3. Press the "TEST" button on the GFCI receptacle. **Did the GFCI trip and the lights on the tester go dark?**  
**YES:** Reset the GFCI by pressing the reset button. Proceed to step 4.  
**NO:** The GFCI is not operating properly or the receptacle is miswired. Consult a qualified electrician.
4. Press and hold the test button on the tester for 7 seconds. **Did the GFCI trip and the lights on the tester go dark?**  
**YES:** Reset the GFCI by pressing the reset button. The GFCI appears to be operating properly.  
**NO:** The GFCI is not operating properly or the receptacle is miswired. Consult a qualified electrician.

#### CLEANING

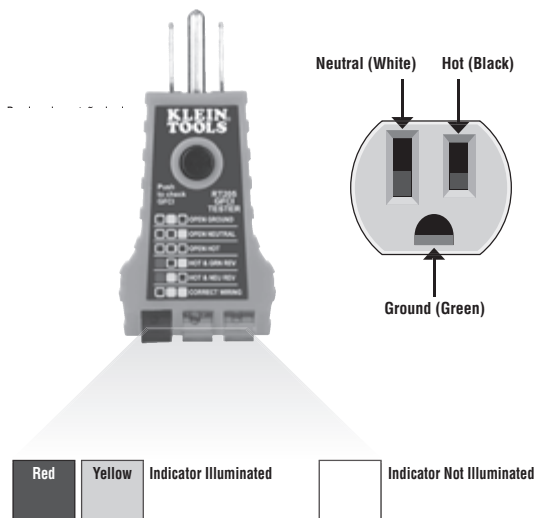
Be sure tester is turned off and wipe with a clean, dry lint-free cloth. **Do not use abrasive cleaners or solvents.**

#### DISPOSAL / RECYCLE



Do not place equipment and its accessories in the trash. Items must be properly disposed of in accordance with local regulations. Please see [epa.gov/recycle](http://epa.gov/recycle) for additional information.

### FIG. 2 - RT205



Indicator	Fault	Explanation
Red	Open Ground	Ground contact is not connected
Yellow	Open Neutral	Neutral contact is not connected
Green	Open Hot	Hot contact is not connected
Red	Hot/Ground Reversed	Hot and ground connections are reversed
Yellow	Hot/Neutral Reversed	Hot and neutral connections are reversed
Green	Correct	Receptacle is wired correctly



CAT II  
125V



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CONFORMIDAD CON LA NORMATIVA FCC/IC  
CONFORMITÉ FCC ET IC

See this product's page FCC compliance information.

