

DUAL-RANGE NON-CONTACT VOLTAGE TESTER WITH LASER POINTER

PROBADOR DE VOLTAJE SIN CONTACTO DE RANGO DUAL CON PUNTERO LÁSER

TESTEUR DE TENSION SANS CONTACT À DOUBLE PLAGE AVEC POINTEUR LASER



70 – 1000V AC
DUAL-RANGE
12 – 1000V AC

WARNINGS AND INSTRUCTIONS INSIDE - DO NOT DISCARD.
ADVERTENCIAS E INSTRUCCIONES EN EL INTERIOR - NO DESECHAR.
AVERTISSEMENTS ET INSTRUCTIONS A L'INTERIEUR - NE PAS JETER.

FIG. 1



ENGLISH

1. NCV Power On/Off Button
2. Laser Power On/Off Button
3. Power On/Mode LEDs
4. Voltage Detection LEDs (Inside Tip)
5. Non-Contact Tip
6. Laser Aperture
7. Pocket Clip
8. O-ring Seal
9. Battery Cap
10. 2x AAA Batteries (Included)

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

ESPAÑOL

1. Botón de encendido y apagado "NCV"
2. Botón de encendido y apagado del láser
3. LED de encendido/mode
4. LED de detección de voltaje (en el interior de la punta)
5. Punta para detección y medición sin contacto
6. Apertura del láser
7. Clip de bolsillo
8. Junta tórica
9. Tapa del compartimento de baterías
10. 2 baterías AAA (incluidas)

NOTA: El probador no contiene en su interior piezas que el usuario pueda reparar.

FRANÇAIS

1. Bouton marche/arrêt NCV (test de tension sans contact)
2. Bouton marche/arrêt du pointeur laser
3. Voyants DEL de marche/mode
4. Voyants DEL de détection de tension (dans la pointe)
5. Pointe sans contact
6. Ouverture du laser
7. Agrafe pour poche
8. Joint torique
9. Couvercle de piles
10. 2 piles AAA (comprises)

REMARQUE : Ce testeur ne contient aucune pièce réparable par l'utilisateur.

ENGLISH

GENERAL SPECIFICATIONS

The Klein Tools NCVT-5 is a dual-range non-contact voltage tester (NCVT) with laser pointer. It can be set to detect voltage from 70 to 1000V AC (Mode 1) or from 12 to 1000V AC (Mode 2). The laser pointer can function independent of or simultaneously with the NCVT.

- **Measurement Range:** Mode 1: 70 to 1000V AC
Mode 2: 12 to 1000V AC
- **Frequency Range:** 50 to 500 Hz
- **Laser:** Class IIIa, 630 to 670nm, Max. Power <5mW
- **Batteries:** 2x AAA 1.5V Alkaline
- **Operating and Storage Altitude:** Up to 6562 ft. (2000 m)
- **Operating and Storage Temp:** 14° to 122°F (-10° to 50°C)
- **Relative Humidity:** <95% non-condensing
- **Dimensions:** 6.0" x 0.96" x 1.16" (152 x 24 x 29 mm)
- **Weight:** 2.5 oz. (72 g) including batteries
- **Pollution degree:** 2
- **Safety Rating:** CAT IV 1000V AC
- **Drop Protection:** 9.8 ft. (3 m)
- **Standards:** Conforms to UL STD. 61010-1, 61010-2-030
Certified to CSA STD. C22.2 No. 61010-1, 61010-2-030
- **Complies with:** 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice No. 50, dated June 24, 2007.

Specifications subject to change.

FUNCTION BUTTONS (FIG. 1)

NCV POWER ON/OFF BUTTON ①

To activate the Non-Contact Voltage Testing feature, press and release the NCV Power-ON button ①. The tester will emit a single beep and one of the Power ON LED's ③ will illuminate ③ indicating which NCVT mode is active (see OPERATING INSTRUCTIONS). To power-OFF the tester, press and hold the NCV button.

NOTE: The tester will automatically power-OFF following 4 minutes of inactivity to conserve battery life.

LASER ON/OFF BUTTON ②

Press and hold the Laser Power Button ② to activate the laser pointer. Release the button to deactivate the laser.

⚠ WARNING: LASER RADIATION. DO NOT do any of the following, as severe and permanent eye damage could result:

- **DO NOT** direct laser beam into eyes.
- **DO NOT** stare into the beam.
- **DO NOT** view directly with optical instruments.

⚠ 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.

- **LASER RADIATION,** Class IIIa laser. **DO NOT** direct laser beam into eyes, **DO NOT** stare into the beam, or **DO NOT** view directly with optical instruments as this can cause severe and permanent eye damage.
- Risk of electric shock and burn. Contact with live circuits could result in death or serious injury.
- Use caution with voltages above 25V AC as a shock hazard may exist.
- A blinking LED or a steadily illuminated LED in the tip and audible beeps indicate presence of voltage. 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. Neutrals 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 user is not holding the tester.
 - The user is insulated from the tester with a glove or other materials.
 - 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 being blocked, dampened, or otherwise interfered with.
 - The frequency of the voltage is not a perfect sine wave between 50 and 500Hz.
 - The tester is outside of operating conditions (listed in Specifications section).
- Operation may be affected by differences in socket design and insulation thickness and type.
- In bright light conditions, the LED visual indicators will be less visible.
- When powered-ON, one of the "power-ON" LED's will be illuminated. **DO NOT USE TESTER UNLESS ONE OF THE "POWER-ON" LED'S IS ILLUMINATED.**
- Do not use if tester appears damaged or is not operating properly. If in doubt, replace the tester.
- Do not apply more than the rated voltage as marked on the tester (1000V).
- Detection above 70V AC in Mode 1, or above 12V AC in Mode 2 is specified under "normal" conditions as detailed 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" (6 mm) 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 – non-condensing).
 - The tester is held still.
- Always wear approved eye protection.
- Comply with local and national safety requirements.
- 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.

OPERATING INSTRUCTIONS

SELECTING VOLTAGE TESTING MODE

NCVT5 can detect voltage in two distinct modes, defined by the voltage ranges to which the tester is sensitive. Mode 1 detects 70 to 1000V AC. Mode 2 detects 12 to 1000V AC. With the tester powered-ON, successive presses of the NCV Power-ON button ① will switch the tester between modes 1 and 2. The Power-ON indicator LED's ③ will indicate the currently active mode. The tester will power-ON in the mode that was most recently used.

OPERATING INSTRUCTIONS

CHECKING FOR THE PRESENCE OF AC VOLTAGE

1. Prior to use, test on a known live circuit to verify tester functionality.
2. Place tip of the tester ⑤ near AC voltage. If voltage is present, the unit will emit audible beeps and the LEDs in the tip ④ will illuminate:

Mode	Power-On LED Color	12 to 70V AC	>70 to 1000V AC
Mode 1 70 – 1000V Range	Red	No illumination, no sound	Red LED in tip ④ illuminated, continuous audible beep
Mode 2 12 – 1000V Range	Blue	Blue LED in tip ④ blinking, pulsing audible beep	Red LED in tip ④ illuminated, continuous audible beep

NOTE: In Mode 2, the tester is more sensitive to high voltage sources and electrically noisy environments. It is recommended to set the tester to operate in Mode 1 when expected voltages are above 70V AC.

SILENT OPERATION

To activate silent operation, power-ON by pressing and holding the NCV Power-ON button ① for more than 2 seconds. Power-ON in this manner each time silent operation is desired.

MAINTENANCE

BATTERY REPLACEMENT

If activating the laser pointer results in a blinking red LED ③, the battery level is too low to operate the laser, but the NCVT may still be used. If attempts to use either the NCVT or the Laser Pointer results in a blinking LED ③, the batteries must be replaced.

1. Unscrew the battery cap ⑨ and remove/recycle spent batteries.
2. Install two new AAA batteries. Note proper polarity.
3. Screw battery cap tightly to ensure a tight seal with the O-Ring ⑧.

CLEANING

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

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.

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 www.epa.gov or www.erecycle.org for additional information.

CUSTOMER SERVICE

KLEIN TOOLS, INC.
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- Detects AC voltage from 12 to 1000V with visual & audible indicators.
- Two detection ranges: 70 to 1000V and 12 to 1000V.
- Bright integrated laser pointer.

- Detecta voltaje CA de 12 V a 1000 V mediante indicadores visuales y audibles.
- Dos rangos de detección: 70 V a 1000V y 12 V a 1000V.
- Puntero láser integrado, con haz de luz brillante.

- Détecte la présence d'une tension allant de 12 à 1000 V c.a. et la signale au moyen d'indicateurs visuels et sonores.
- Deux plages de détection : 70 à 1000 V et 12 à 1000 V.
- Pointeur laser lumineux intégré.

Durability / Durabilidad / Durabilità

Drop Protection Protección ante caídas / Protection contre les chutes		9.8 ft. (3 m)
Safety Rating Clasificación de seguridad / Cote de sécurité		CAT IV 1000V

Symbols on tester / Símbolos del probador / Symboles sur le testeur

Warning – Risk of electric shock / Advertencia: riesgo de choque eléctrico / Avertissement – Risque d'électrocution

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.

Riesgo de peligro. **Información importante:** Es importante que el usuario de este probador lea, comprenda y respete todas las advertencias, precauciones, instrucciones e información de seguridad incluidas en este manual, antes de poner en funcionamiento el probador o de realizarle servicios de mantenimiento. No seguir estas instrucciones puede dar lugar a lesiones graves o mortales.

Risque de danger. **Information importante :** Il est important que les utilisateurs de ce testeur lisent, comprennent et suivent tous les avertissements, mises en garde, information de sécurité et instructions donnés dans le présent guide avant de faire fonctionner ou de réparer ce testeur. Le non-respect pourrait entraîner des blessures graves, voire la mort.

Double insulated / Doble aislamiento / Double isolation
This product has been independently tested by Intertek and meets applicable published standards.

Este producto ha sido probado de manera independiente por Intertek y cumple con las normas publicadas vigentes.
Ce produit a été testé de manière indépendante par Intertek et répond aux exigences des normes applicables.

For measurements performed at the source of low-voltage installation and outside lines.
Para mediciones realizadas en la fuente de la instalación de bajo voltaje y líneas externas.
Pour des mesures prises à la source d'une installation à faible tension et des lignes extérieures.

DANGER

RAYONNEMENT LASER: ÉVITEZ L'EXPOSITION DIRECTE DES YEUX

Puissance Maximum <5mW
Longueur d'onde 630-670nm
PRODUIT LASER CLASS IIIa

DANGER

LASER RADIATION: AVOID DIRECT EYE EXPOSURE

Max. Output <5mW
Wavelength: 630-670nm
CLASS IIIa LASER PRODUCT

WARNINGS and instructions: See inside.
 ADVERTENCIAS e instrucciones: ver en interior.
 AVERTISSEMENTS et instructions : Voir à l'intérieur.

Warranty / Garantía / Garantie :
www.kleintools.com/warranty

2x AAA INCLUDED
INCLUIDAS
COMPRIS

Importado por: KLEIN TOOLS DE MEXICO
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No. 75, 77 y 79 No. Int. 9
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RFC KTM-710310-645
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