KLEIN TOOLS

IR07

DUAL IR/PROBE THERMOMETER

TERMÓMETRO DOBLE IR/SONDA

THERMOMÈTRE DOUBLE À INFRAROUGE ET À SONDE

-40° – 572°F

-40° – 300°C

2X AAA
INCLUDED
INCLUIDAS
COMPRISES

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

2 m IP54

CE

FIG. 1

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

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

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

ENGLISH

TESTER FEATURES

1. SCAN/HOLD button
2. Differential temperature button (T1-T2)
3. MAX/MIN button
4. LCD display
5. IR temperature sensor
6. Target laser
7. Temperature probe
8. Battery compartment door
9. Temperature probe thumb stud

LCD FEATURES

A. Targeting laser active
B. IR in use
C. PROBE in use
D. HOLD
E. Low battery indicator
F. MAX / MIN
G. T1 / T2 / T1 - T2
H. °F / °C

ESPAÑOL

CARACTERÍSTICAS DEL PROBADOR

1. Botón SCAN/HOLD (ESCANEAR/RETENER)
2. Botón de temperatura diferencial (T1-T2)
3. Botón MAX/MIN (MÁXIMO/MÍNIMO)
4. Pantalla LCD
5. Sensor de temperatura IR
6. Láser de enfoque del objetivo
7. Sonda de temperatura
8. Tapa del compartimento de las baterías
9. Perno para pulgar de la sonda de temperatura

CARACTERÍSTICAS DE LCD

A. Láser de enfoque del objetivo activado
B. IR en uso
C. SONDA en uso
D. RETENER
E. Indicador de batería baja
F. MÁX/MÍN
G. T1 / T2 / T1 - T2
H. °F / °C

FRANÇAIS

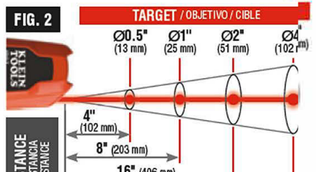
CARACTÉRISTIQUES DU TESTEUR

1. Bouton SCAN/HOLD (balayage/maintien)
2. Bouton de température différentielle (T1-T2)
3. Bouton MAX/MIN
4. Écran ACL
5. Capteur de température à infrarouge
6. Laser d'acquisition de la cible
7. Sonde de température
8. Couvercle du compartiment à piles
9. Goujon de pouce de la sonde de température

CARACTÉRISTIQUES DE L'ÉCRAN ACL

A. Laser d'acquisition de la cible activé
B. Mode infrarouge en cours d'utilisation
C. Sonde en cours d'utilisation
D. Maintien activé
E. Indicateur de piles faibles
F. MAX/MIN
G. T1/T2/T1-T2
H. °F/°C

FIG. 2



NOTE: Increased distance from target may affect tester accuracy.

NOTA: Si la distancia desde el objetivo es mayor a la indicada, la precisión del probador se puede ver afectada.

REMARQUE : Il est possible que les résultats soient moins précis si le testeur se trouve loin de la cible.

ENGLISH

GENERAL SPECIFICATIONS

The Klein Tools IR07 is a dual IR (infrared) Thermometer and probe Thermometer. It features an IR Thermometer with laser targeting, a probe Thermometer with hook for hands-free operation, and displays results in either Fahrenheit or Celsius scales.

- **Environment:** Indoor or outdoor
- **Operating Altitude:** 6561' (2000 m)
- **Relative Humidity:** < RH 85% non-condensing
- **Operating Temperature:** 32° to 122°F (0° to 50°C)
- **Storage Temperature:** -4° to 140°F(-20° to 60°C)
- **Display:** White Backlit LCD
- **Display resolution:** 0.1°F (0.1°C)
- **Units:** Selectable °F or °C
- **Temp Coefficient:** +/- 0.1°C or +/- 0.1% per °C, whichever is greater (21° to 25°C)
- **IR Temperature Range:** -40° to 572°F (-40° to 300°C)
- **IR Temperature Resolution:** 0.1°F (0.1°C)
- **Distance to Spot Ratio:** 8:1
- **Emissivity:** 0.95 fixed
- **Response Time:** <500ms
- **IR Temperature Accuracy:** +/- 2°C+ 0.1°C from -40° to 0°C
  +/- 2°C or +/- 2% whichever is greater from 1° to 300°C
- **Probe Temperature Range:** -40° to 572° F (-40° to 300°C)
- **Probe Temperature Resolution:** 0.1°F (0.1°C)
- **Minimum Probe Depth:** 0.5" (12 mm)
- **Probe Temp Accuracy:** +/- 2°C from -40° to 0°C
  +/- 1°C or +/- 1% whichever is greater from 1° to 300°C
- Laser: FDA and IEC Class II
- **Laser Power:** < 1mW @ 1 cm
- **Laser Wavelength:** 630 to 670 nm
- **Standards:** Certified to IEC EN 61326-1:2013, EN 61326-2-3:2013, EN60825-1:2014
- **Power:** 2 x 1.5V AAA batteries (included)
- **Battery Life:** IR: 30 hours (continuous use) Probe: 180 hours (continuous use)
- **Dimensions:** 5.8' x 0.96' x 1.6' (148 x 24 x 42 mm)
- **Weight:** 2.5 oz. (72 grams)
- **Drop Protection:** 6.6 ft. (2 m)
- **IP rating:** IP54 waterproof & dustproof
- **Pollution Degree:** 2
- **Electromagnetic Environment:** IEC EN 61326-1. This equipment meets requirements for use in basic and controlled electromagnetic environments like residential properties, business premises, and light industrial locations.

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.

- Do not direct laser beam into eyes, as this can cause permanent eye damage.
- Do not use the tester if the case is damaged in any way.
- Replace the battery as soon as low battery indicator appears.
- Replace the tester immediately if it is acting abnormally.
- Be cautious of readings of reflective materials as the tester may indicate that these surfaces are cooler than their actual temperature.
- Thermometer is **NOT** intended for use on people or animals.
- Avoid using the tester around strong electromagnetic fields.

⚠ CAUTION

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

SAFE PRACTICES

This tester is designed for professionals who understand the hazards associated with their trade. While this tester causes no foreseeable dangers beyond its targeting lasers; the objects being measured, as well as the environment in which they reside, can be hazardous. Common safety practices to follow when operating near temperature critical environments are:

- Follow the manufacturer's maintenance procedures when servicing equipment.
- Before using this tester to determine if an area is safe, verify correct operation by measuring a known temperature value of a comparable object.

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.
	Risk of electrical shock.
	Wear approved eye protection
	Read and follow instructions
CE	**Conformité Européenne:** Conforms with European Economic Area directives
	Do not place equipment and its accessories in the trash

OPERATING INSTRUCTIONS

8:1 OPTICAL RESOLUTION

The IR07 is configured with 8:1 optical resolution (distance-to-spot-ratio). Typical diameters of the measurement area as a function of the distance between the tester and the target area are shown in FIG. 2. ***NOTE:*** *Increased distance from target may affect tester accuracy.*

MEASURING IR TEMPERATURE

Aim the tester at the object to be measured and push the SCAN/HOLD button button ① for at least 2 seconds. When button is released, "HOLD" will show on the display, and the measurement will be held.

For D fferential Temperature:

- Press the T1-T2 button ② to view T1, then press SCAN/HOLD button button ①.
- Press the T1-T2 button ② again to lock in T1 value and enter T2, then press SCAN/HOLD button button ①.
- Press the T1-T2 button ② again to lock in T2 value and get the differential temperature value on the screen.
- Long press T1-T2 button to exit.

MEASURING PROBE TEMPERATURE

Open the temperature probe using the thumb stud ⑨ to start measurement.

NOTE: *Do not open the probe by touching the metal part of the probe, as your body temperature can effect the probe's temperature readings.*

NOTE: *The probe must be opened to an angle greater than 30 degrees before measurement will start.*

Press the SCAN/HOLD button ① to lock in the measurement.

For D fferential Temperature:

- Press the T1-T2 button ② to view T1.
- Press the T1-T2 button ② again to lock in T1 value and enter T2.
- Press the T1-T2 button ② again to lock in T2 value and get the differential temperature value on the screen.
- Long press T1-T2 button to exit.

SELECTING A TEMPERATURE SCALE

The default scale is Fahrenheit (°F). Press and hold both the MAX/MIN ③ and T1-T2 ② buttons for 2 seconds to change scale to Celsius (°C).

MAX/MIN:

Press the MAX/MIN button ③ to begin recording the maximum and minimum values being measured. Press to cycle through MAX, MIN, and current reading. Long-press to exit. **NOTE:** The laser light will remain on in IR MAX/MIN mode.

TARGETING LASER:

The laser is on when the SCAN/HOLD button ① is held, and is off when released. When on, the laser icon Ⓐ will be visible on the display.

OPERATING INSTRUCTIONS

NOTES:

- To conserve battery life, the auto-power off feature will automatically turn off the tester when the probe is closed, and/or after 10 minutes of inactivity.
- If the display shows 'OL' following a measurement, this indicates that the object being measured is either above or below the measurement range of the tester.

BATTERY REPLACEMENT

When ▭ indicator is displayed on LCD, batteries must be replaced.

1. Open the battery compartment ⑧.
2. Remove 2 exhausted AAA batteries and dispose of appropriately.
3. Replace batteries and return battery compartment cover, ensuring that it locks into place, then secure with screw.

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.

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