



INSTRUMENT OPERATION - The Thermapen IR is both a non-contact infrared (IR) and a generation probe thermometer. **IR MODE** (Probe in closed position) - Aim the thermometer at an object whilst pressing the Scan button . The target's surface temperature will be displayed. The  symbol will appear in the display and the instrument will continue to measure whilst the Scan button is held down. When the Scan button is released 'HOLD' is displayed and the reading is automatically held for 30 seconds after which the thermometer will shut down.

PROBE MODE - Unfold the probe and insert the tip into the medium or substance to be measured. The instrument will take a few seconds to stabilise. The instrument is turned off by folding the probe until fully located into the rubber probe retainer. The probe should not be rotated more than 180 degrees as damage will occur. When not in use, it is recommended to store the probe in the closed position. The probe tip is very sharp and therefore caution should be taken when using.

MEASUREMENT ZONE/TARGET DISTANCE - The measurement zone is proportional to the distance the Thermapen IR is away from the target. The Thermapen IR is equipped with a 5:1 lens. If the target is 10 cm away, the measurement zone will be 2 cm across.

ROTATIONAL DISPLAY - The display will rotate through 90° steps depending on the direction the instrument is pointing so that it can be used at any angle or in either hand, in both modes.

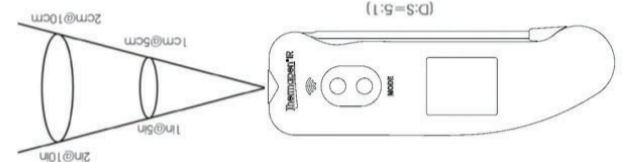
MAX/MIN - In IR mode, when 'HOLD' is displayed, press the Mode button to show the maximum or minimum values of the readings previously taken. These values are lost when the instrument goes into sleep mode after 30 seconds, or if the probe is opened. If the Scan button is pressed whilst viewing Max/Min values the instrument immediately measures and reverts back into Hold mode when released. **Please note:** Max/Min is only available in IR mode.

INSTRUMENT CONFIGURATION - The Thermapen IR has two settings menus that are accessed depending on the mode in use. Settings in Probe Mode apply to both IR and Probe measurements whilst settings in IR mode are specific to infrared. Whilst in settings the LCD will be locked to horizontal rotation.

°C/°F - Whilst in Probe mode press and hold the Mode button for 3 seconds to enter the instrument settings menu. The display will show '°C/°F', press the Scan button to change between °C and °F. Press the Mode button twice to save and exit - 'End' is displayed.

RESOLUTION - Whilst in Probe mode press and hold the Mode button for 3 seconds to enter the instrument settings menu. Press the Mode button again to display the resolution (either 1° or 0.1°). Press the Scan button to change the resolution setting and then press the Mode button to save and exit - 'End' is displayed.

EMISSIVITY - The Thermapen IR is supplied with a default emissivity setting of 0.95, that can be adjusted between 0.10 and 1.00 when in IR mode. To adjust, hold down the Mode button for 3 seconds to enter



the IR settings menu. Press the Scan button to increase the value in 0.1 steps. Once you have set the required emissivity press the Mode button twice to save and exit - 'End' is displayed.


For information relating to the emissivity of specific materials, please visit etiltld.com/emissivity. **Please note:** Non-contact infrared thermometers are not recommended for measuring the temperature of shiny or polished metals.

AMBIENT - Whilst in IR mode press and hold the Mode button for 3 seconds to enter the IR settings menu. Press the Mode button again to view the ambient temperature. To exit the menu, press the Mode button once more - 'End' is displayed.

LCD ERROR MESSAGES (PROBE & IR MODES) - If the ambient temperature falls outside the operational range, then either 'Ambient Lo' or 'Ambient Hi' will be displayed. This will continue until the ambient temperature has returned within the limits. The thermometer should be allowed plenty of time (minimum 30 minutes) to stabilise to the working/room temperature. 'Hi' or 'Lo' will be displayed when the temperature being measured is outside of the instrument's measurement range. 'Err' will be displayed if the instrument has developed a fault.

AUTO OFF/SLEEP MODE - The instrument will automatically switch off after 30 seconds. The timer is reset with any button push in IR mode or with any movement in Probe mode. Whilst in a settings menu the sleep interval is 10 minutes.

WAKE - When in Probe mode the instrument will wake from sleep when movement is detected.

BATTERY REPLACEMENT - A battery symbol  indicates that the batteries will need replacing. The instrument continues to measure accurately but we recommend that the batteries be changed as soon as possible. To replace the batteries, undo the retaining screw and lift the battery cover. Remove the batteries by pulling the battery retaining clip back whilst holding the unit upside down. Replace both batteries, placing them positive side up, and ensuring the edge of the batteries are clipped under the plastic lugs near the cover hinge. Finally replace cover and tighten retaining screw.

STORAGE & CLEANING - Clean the instrument regularly with an anti-bacterial probe wipe to avoid potential food-borne bacteria growth. The infrared sensor lens is the most delicate part of the thermometer and should be kept clean at all times. Care should be taken when cleaning the lens, using only a damp soft cloth or damp cotton swab. Allow the lens to fully dry before using it. The thermometer should be stored between -20 to 60 °C.

WARNING: IPA and other solvents may cause damage to the case and screen of this instrument.

GUARANTEE - This instrument carries a two-year guarantee against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of ETI, be either repaired or replaced without charge. This guarantee does not apply to probes, where a six-month period is offered. The product guarantee does not cover damage caused by fair wear and tear, abnormal storage conditions, incorrect use, accidental misuse, abuse, neglect, misapplication or modification. Full details of liability are available within ETI's Terms & Conditions of Sale at etiltld.com/terms. In line with our policy of continuous development, we reserve the right to amend our product specification without prior notice.

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
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MENSAJES DE ERROR EN PANTALLA LCD (MODO IR Y SONDA)
 En caso de que la temperatura ambiente se encuentre fuera del rango de funcionamiento, aparecerá en pantalla la señal de 'Ambient Lo' (temperatura ambiente demasiado baja) o 'Ambient Hi' (temperatura ambiente demasiado alta). Esta señal continuará hasta que la temperatura ambiente haya alcanzado un nivel que esté dentro de los límites. El termómetro debe tener suficiente tiempo para estabilizarse a la temperatura ambiente (un mínimo de 30 minutos). Aparecerá en pantalla 'Hi' (alto) o 'Lo' (bajo) mientras la temperatura que se está midiendo se encuentre fuera del rango de medición de temperatura del instrumento. Aparecerá 'Err' (error) si surgiera algún fallo en el instrumento.

MODO AUTO APAGADO/REPOSO - El instrumento se apagará de manera automática después de 30 segundos. El temporizador se reajustará al pulsar cualquier botón en modo IR, o con cualquier movimiento, si está en modo sonda. Mientras se encuentra en el menú de ajustes, el intervalo de modo reposo es de 10 minutos. **ACTIVO** - En modo de sonda, al detectar cualquier movimiento el instrumento pasará del modo reposo al activo.

CAMBIO DE PILAS - El símbolo de una pila  indica que es necesario cambiar las pilas. El termómetro continuará realizando una medición precisa pero se recomienda que se cambien las pilas lo más pronto posible. Para sustituir las pilas, hay que soltar el tornillo de sujeción y levantar la tapa de las pilas. Tirar del clip de sujeción de las pilas hacia fuera y retirar las pilas mientras se mantiene la unidad boca abajo. Cambiar las pilas colocando el lado positivo hacia arriba y asegurándose de que el borde de las pilas se encuentra sujeto a las agarraderas de plástico cerca del pivote de la tapa. Finalmente, volver a poner la tapa y el tornillo de sujeción.

ALMACENAMIENTO Y LIMPIEZA - Es necesario limpiar el aparato frecuentemente con un trapo antibacteriano para sondas y evitar así el posible desarrollo de bacteria transmitida por los alimentos. La lente del infrarrojo es la parte más delicada del termómetro y deberá mantenerse limpia en todo momento. Se debe tener cuidado al limpiar la lente y utilizar para ello un trapito húmedo y suave o bien un bastoncillo húmedo de algodón. La lente deberá estar completamente seca antes de usarse. El termómetro deberá guardarse a una temperatura comprendida entre -20 y 60 °C.

AVISO: IPA y otros disolventes podrían dañar el estuche y la pantalla de este instrumento.



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Thermapen® IR



Operating Instructions

