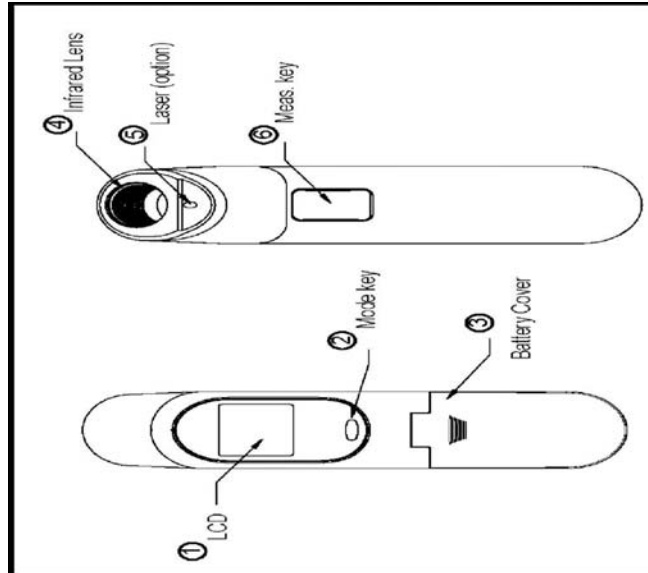


# Tel-Tru Food Inspector IR Laser Thermometer Operating Instructions

## Model QTFI 40L

The **QTFI 40L** laser thermometer is a non-contact infrared thermometer providing a real-time measurement of Maximum (MAX) temperature. Please remember to keep the unit away from children and do not use it for medical applications.



1. Simply aim the IR thermometer at the target or surface to be measured with Lens (4) and press the Meas. key (6) to display the surface temperature.
2. During the period of time the Measurement Key is pressed, the MAX reading will be displayed beside the MAX icon as shown at the left. The larger value displayed below the MAX value is the instantaneous temperature value.
3. The Distance-to-Spot Ratio is 12:1. Please make sure the target area to be measured is within the instrument's field-of-view

|          |                                 |
|----------|---------------------------------|
| °C or °F | Press Mode Key (2) for °C or °F |
|          | LCD Backlight: always on        |
| Laser    | Class II Laser: always enabled  |

### CAUTION

1. WHEN DEVICE IS IN USE, DO NOT LOOK DIRECTLY INTO THE LASER BEAM—PERMANENT EYE DAMAGE MAY RESULT.
2. USE EXTREME CAUTION WHEN OPERATING THE LASER.
3. NEVER POINT THE DEVICE TOWARDS ANYONE'S EYES.
4. KEEP OUT OF REACH OF CHILDREN.

### STORAGE & CLEANING

The sensor lens is the most delicate part of the **QTFI 40L** thermometer. The lens should be kept clean at all times, care should be taken when cleaning the lens using only a soft cloth or cotton swab with water or medical alcohol. Allowing the lens to fully dry before using the **QTFI 40L**. Do not submerge any part of the **QTFI 40L**. The **QTFI 40L** should be stored at temperatures between  $-20$  to  $+65^{\circ}\text{C}$ .

## LCD ERROR MESSAGES

The **QTFI 40L** thermometer incorporates visual diagnostic messages as follows:

*Er2, Er3*

'Er2' is displayed when the thermometer is exposed to rapid changes in the ambient temperature. 'Er3' is displayed when the ambient temperature is below 32°F or above 122°F. The thermometer should be allowed adequate time (minimum 30 minutes) to stabilize to the working/room temperature.

*Er*

For all other error messages it is necessary to reset the instrument. To reset, turn the instrument off, remove the battery and wait for a minimum of one minute, reinsert the battery and turn on. If the error message remains please contact the Service Department for further assistance.

## BATTERIES

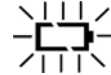
The **QTFI40L** incorporates visual low battery indication as follows:



'Battery OK': measurements are possible



'Battery Low': battery needs to be replaced, measurements are still possible



'Battery Exhausted': measurements are not possible

⚠ When the 'Low Battery' icon indicates the battery is low, the battery should be replaced immediately with AAA, 1.5V batteries. Please note: It is important to turn the instrument off before replacing the battery otherwise the TN4 may malfunction.

- Dispose of used batteries promptly and keep away from children.

## SPECIFICATIONS

| Item                           | Performance Specifications                                      | Comments                         |
|--------------------------------|---|----------------------------------|
| Measurement Range              | -55 to 280 °C (-67 to 536 °F)                                   |                                  |
| Operating Range                | 0 to 50 °C (32 to 122 °F)                                       |                                  |
| Accuracy                       | ±1°C (±2°F), T within 0 to 65°C (32 to 150°F)                   | MEETS HACCP ACCURACY REQUIREMENT |
|                                | ±1°C (±2°F) ±0.1 degree/degree, T < 0°C (32°F)                  |                                  |
|                                | ±1.5% of reading, T > 65°C (150°F)                              |                                  |
| Emissivity & Spectral Response | 0.97 pre-set at factory; detector response: 8µm to 14µm         |                                  |
| Resolution (-9.9-199.9°C)      | 0.1°F/0.1°C   |                                  |
| Response Time (90%)            | 1 sec   |                                  |
| Distance-to-Spot               | 12:1  |                                  |
| Battery Life                   | Typ.180, min 140 hours continuous use; 2 AAA Alkaline batteries |                                  |
| Dimensions; Weight             | 6.9" x 1.5" x 2.8" ; 6.3oz (including batteries)                |                                  |

## ⚠ EMC/RFI

Readings may be affected if the unit is operated within radio frequency electromagnetic field strength of approximately 3 volts per meter, but the performance of the instrument will not be permanently affected.



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