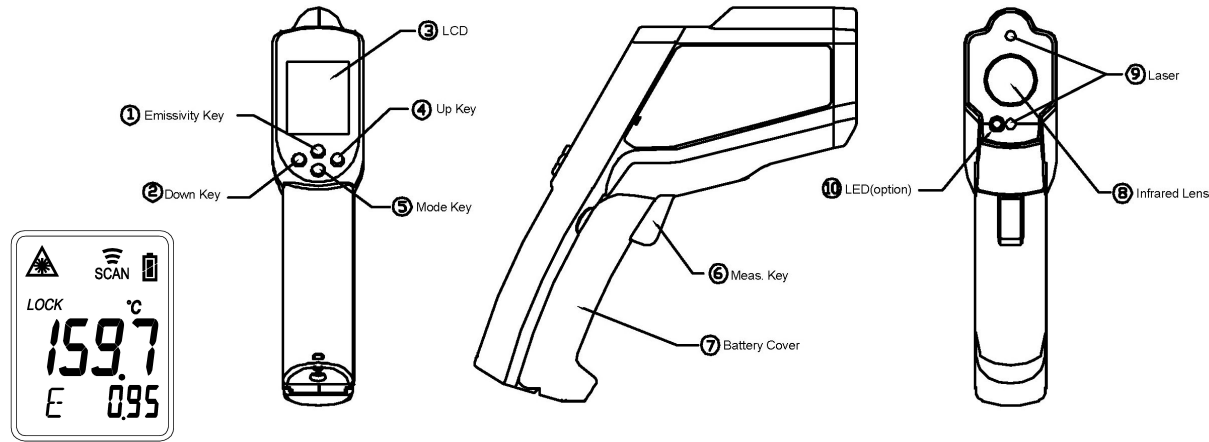


TN425L / TN425LE(with white LED Flashlight) Thermometer

Operating Instructions

The thermometer is a non-contact infrared thermometer. There are many mathematical modes for the Infrared function. Please remember to keep away from children and don't use it for safety related applications.



(Default Screen)

Simply aim the thermometer at the measure target with Lens (8) and press Meas. key (6) to display the surface temperature. The Distance:Spot is 50:1. The two laser points are the reference for the target spot size. Please make sure the target area is within the field of view.

FUNCTION

Press Emissivity key (1) for setting the emissivity

E Press Emissivity key (1), then press Up key (4) or Down key (2) to **set the emissivity**, then press Mode key (5) to confirm it. The emissivity can be changed from 0.10 (10E) to 1 (100E).

Press Mode key (5) for scrolling more display function as follows.

E Here will show the emissivity data. (The default emissivity is 0.95.)

MAX
MIN
DIF
AVG Press Mode key (5) for the **Maximum (MAX), Minimum (MIN), Different between MAX and MIN (DIF) and Average (AVG) modes**. During the measurement, the special modes reading will be displayed beside the mode icon.

HAL
LAL Press Up key (4) or Down key (2) key to change the **High Alarm (HAL) or Lo Alarm (LAL)**, then press Meas. key (6) to confirm it. For example: When the reading 26.9°C < LAL 27 °C, the Low icon will flash and you will hear a beep sound.

** The thermometer will automatically shut off if left idle for more than 60sec.

ADD VALUE

| | | |
|---|---|--|
| In MAX, MIN, DIF, AVG mode: | Press Up key (4) for LOCK mode ON/OFF . The lock mode is particularly useful for continuous monitoring of temperatures for up to 60 minutes. | |
| | Press Down key (2) for °C or °F transferred . | |
| In all modes: First hold on the Meas. key (6) | and press Up key (4) for backlight function ON/OFF . | |
| | and press Down key (2) for laser function ON/OFF . (With flash light be turned on in the same time as laser) | |



Ref.No.032009

CAUTION

1. WHEN DEVICE IS IN USE, DO NOT LOOK DIRECTLY INTO THE TWO LASER BEAMS—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 ALL CHILDREN.

STORAGE & CLEANING

It should be stored at room temperature. The sensor lens is the most delicate part of the 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 thermometer. Do not submerge any part of the thermometer.

LCD ERROR MESSAGES

The thermometer incorporates visual diagnostic messages as follows:

(((HI)))
LOW 'Hi' or 'Lo' is displayed when the temperature being measured is outside of the settings of HAL and LAL.

Er2 'Er2' is displayed when the thermometer is exposed to rapid changes in the ambient temperature. 'Er3' is displayed when the ambient temperature exceeds 0°C (32°F) or +50°C (122°F). The thermometer should be allowed plenty of time (minimum 30 minutes) to stabilize to the working/room temperature.

Er Error 5~9, for all other error messages it is necessary to reset the thermometer. To reset it, wait for auto power 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.

Hi, Lo 'Hi' or 'Lo' is displayed when the temperature being measured is outside of the measurement range.

BATTERIES

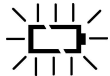
The thermometer incorporates visual low battery indication as follows:



'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 thermometer may malfunction.

⚠ Dispose of used battery promptly and keep away from children.

SPECIFICATION

| Item | Non-contact Infrared Scan function |
|--|---|
| Measurement Range | -60 to +1000 °C (-76 to +1832 °F) |
| Operating Range | 0 to +50°C (32 to +122°F) |
| Accuracy (Tobj=15~35°C, Tamb=25°C) | ±1.0°C (1.8°F) |
| Accuracy (Tobj=-33~1000°C, Tamb=23±3°C) | ±2% of reading or 2°C (4°F) whichever is greater |
| Emissivity Range | 0.95 default – adjustable 0.1 to 1 step .01 |
| Resolution | 0.1°C/0.1°F at -76 to 999.9(°C/°F), otherwise 1°C/1°F |
| Response Time (90%) | 1sec |
| Distance:Spot | 50:1 |
| Battery Life | Typ.180, min 140 hours continuous use (Alkaline, without Laser and Back Light.) |
| Dimensions | 47.0 x 197.0 x 203.3mm(1.8×7.7×8.0 inch) |
| Weight | 386.1 grams(13.62 oz) including batteries (AAA*2pcs) |
| Note: Under an electromagnetic field of 3V/m from 90 to 360 MHz the maximum error is +/-10°C | |

⚠ **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.

ZyTemp
A new way to measure temperature

Radiant Innovation Inc. [Http://www.ZyTemp.com](http://www.ZyTemp.com)
1F, No.3, Industrial East 9th Road, Science-Based Industrial Park, HsinChu, Taiwan 300.