

INFRARED/THERMOCOUPLE PROBE THERMOMETER

Infrared: -67 to +482°F/-55 to +250°C
Thermocouple: -67 to +626°F/-55 to +330°C

FOR NON-CONTACT AND INTERNAL TEMPERATURES

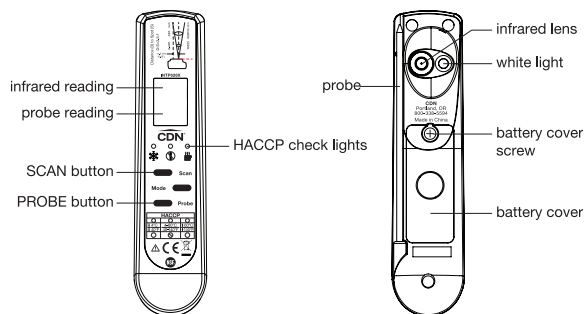
- NSF[®] Certified
- Distance:Spot = 2.5:1
- Rapid response
- Waterproof (IP65)
- HACCP check lights & icons
- 1.5 mm thin tip
- Accuracy: $\pm 2^{\circ}\text{F}$ (1°C)
- One-button operation
- Dual function
- Shatterproof
- Maximum, minimum & lock for continuous scanning
- Hold
- Laser target illumination
- Battery status indication
- BioCote[®] antimicrobial
- Auto-off
- Selectable units
- Temperature guide
- 4.5" (11.43 cm) probe
- Pouch
- Batteries & instructions included

GET PROFESSIONAL RESULTS EVERY TIME!

Monitoring temperature is essential to keeping food safe. The versatile INTP626X is perfect for any application. Simply point the infrared sensor lens toward the target and press SCAN to get a quick reading of surface temperatures or flip down the rapid-response thermocouple probe to measure internal temperatures. Integrated HACCP check lights and icons instantly show if temperatures are within HACCP guidelines for safe food temperatures.

Minimum, Maximum and Lock

The INTP626X also offers Minimum, Maximum, and Lock modes. Minimum mode displays the lowest temperature among multiple targets. Maximum mode displays the highest temperature among multiple targets. While Lock mode continuously displays the temperature for up to 60 minutes. This is particularly useful for continuous temperature monitoring.



Note: Remove label from display before initial use.

Note: In the following instructions, names of the control buttons are shown in CAPS. Function information that appears on the display is shown in **BOLD CAPS**.

BATTERY INSTALLATION

Power off the unit before installing the battery. A malfunction may occur if the power is on when the battery is installed. If a malfunction occurs, restart the device.

1. Holding the device on the outside edges (do not press buttons), remove the screw on the battery cover by turning it counter clockwise.
2. Remove the battery cover, top edge first.
3. Install two 1.5V AAA batteries observing polarity shown in compartment.
4. Replace the battery cover, bottom edge first, push downward and then press forward.
Important: THE WATER RESISTANT FEATURE REQUIRES MAINTAINING A TIGHT FIT FOR THE BATTERY COVER AND THE RUBBER CAP.
5. Fasten the screw on the battery cover by turning it clockwise.



OPERATING INSTRUCTIONS

Mode Selection: MIN > MAX > LOCK > °C/°F > EMIS

A. Temperature Scale

To select temperature reading in Fahrenheit or Celsius:

1. Press the SCAN button to turn the thermometer on.
2. Press the MODE button four times. The °F or °C symbol flashes on the display.
3. Press the SCAN button to change the scale.

B. Infrared Thermometer

Infrared is the default mode of the INTP626X.

Note: The INTP626X is intended for food service use — do not use for safety related applications.

1. Infrared Scanning

a. **Distance:Spot = 2.5:1**

For example, if the surface area being measured is 10" in diameter, then the thermometer must be within 25" of the target for an accurate reading.

Distance:Spot (FOV) = 2.5:1
Emissivity = 0.1~1, Step .01
Wave Length = 8µm-14µm

- b. Aim the infrared lens at the target and press

CAUTION: Never point the unit and/or laser towards anyone's eyes. Do not look directly into the laser beams — permanent eye damage may result. Keep away from children.

the SCAN button to display the surface temperature. **The white light automatically turns on to illuminate the target.**

- c. Measurement continues as long as the SCAN button is pressed. The newest reading updates the display.
- d. When the SCAN button is released, **HOLD** appears on the display and the last reading remains visible for 15 seconds before the unit automatically powers off.
- e. When the trigger is released, **HOLD** appears on the display and the last reading remains visible for 15 seconds before the unit automatically powers off.

2. Minimum Mode

- a. Press the SCAN button to turn the thermometer on.
- b. Press the MODE button once. **MIN** flashes on the display.
- c. Press and hold the SCAN button to confirm the Minimum Mode and display the lowest temperature among multiple targets.

3. Maximum Mode

- a. Press the SCAN button to turn the thermometer on.
- b. Press the MODE button twice. **MAX** flashes on the display.
- c. Press and hold the SCAN button to confirm the Maximum Mode and display the highest temperature among multiple targets.

4. Lock Mode

This is particularly useful for continuous temperature monitoring.

- a. Press the SCAN button to turn the thermometer on.
- b. Press the MODE button three times. **LOCK** flashes on the display.
- c. Press the SCAN button to confirm the Lock Mode. The thermometer continuously displays the temperature for up to 60 minutes or until the SCAN button is pressed again.

5. Emissivity

Everything gives off a certain amount of radiation. Emissivity is the measure of this thermal radiation. The infrared thermometer is supplied with a default emissivity of 0.95, which standard for most uses. The emissivity of the thermometer can be changed from 0.05 (5E) to 1 (100E). **Only experienced personnel should attempt to make changes.**

For information relating to the emissivity of specific materials, please contact CDN.

- a. Press the SCAN button to turn the thermometer on.
- b. Press the MODE button five times to enter Emissivity Mode. **95E** flashes on the display.

- c. Press the SCAN button to adjust the emissivity value in 0.01 (1E) increments.
- d. Press the MODE button again to exit Emissivity Mode.

Note: Non-contact infrared thermometers are not recommended for use in measuring the temperature of shiny or polished metals.

6. Error Messages

The INTP626X incorporates visual diagnostic messages as follows:

- a. **HI** or **LO** is displayed when the temperature being measured is outside the infrared range of the instrument.

- 1.) **HI** indicates that the temperature is higher than +482°F (+250°C). **Hi**

- 2.) **LO** indicates that the temperature is lower than -67°F (-55°C). **Lo**

- b. Allow a minimum 30 minutes for the thermometer to stabilize to the working/room temperature.

- 1.) **Er2** is displayed when the thermometer is exposed to rapid changes in the ambient temperature. **Er 2**

- 2.) **Er3** is displayed when the ambient temperature exceeds -32°F (0°C) OR +122°F (+50°C). **Er 3**

- c. For all other error messages it is necessary to reset the thermometer. **Er**

- 1.) Wait for the thermometer to power off.
- 2.) Remove the battery and wait for a minimum of one minute.
- 3.) Reinstall the battery (see **Battery Installation**).
- 4.) Press the SCAN button to turn the thermometer on.
- 5.) If the error message remains, please contact CDN for further assistance.

C. Thermocouple Probe

Important: THE PROBE MAY BE DAMAGED IF MEASUREMENT TEMPERATURE IS LOWER THAN -67°F (-55°C) OR HIGHER THAN +626°F (+330°C).

1. Flip down the probe until fully extended.
Important: DO NOT TWIST THE PROBE OR ROTATE IT IN WRONG DIRECTION. EXCEPTIONAL STRESS ON PROBE MAY CAUSE IT TO BREAK.
2. Insert the probe at least 1" (2.5 cm) into the food.
3. Press the PROBE button to continuously display the temperature for up to 4 minutes before the unit automatically powers off.

Note: Pressing the PROBE button may interrupt the last infrared HOLD reading. Press the PROBE button again to return to infrared scanning.

4. Wearing a heat resistant glove, flip the probe back into the case when finished.
CAUTION: Probe may be HOT after use. Always wear a heat resistant glove to touch the stainless steel probe or sensor cable during or just after cooking. Do not touch with bare hands.

D. HACCP Check

Integrated HACCP check lights and icons instantly show if temperatures are within HACCP guidelines for safe food temperatures.

Note: The GREEN and RED lights will always be lit before power off.



1. A **GREEN** light above the **SNOWFLAKE** icon (❄️) indicates a safe cool or frozen condition below 40°F (4°C).

HACCP		
●	●	●
↓ 4°C ↓ 40°F	4-60°C 40-140°F	↑ 60°C ↑ 140°F
○	○	○

2. A **GREEN** light above the **HOT CUP** icon (☕) indicates a safe holding temperature above 140°F (60°C).
3. A **RED** light above the **DON'T EAT** icon (⊘) indicates that the temperature is within the **HACCP Danger Zone** of 40 to 140°F (4 to 60°C).

E. Battery Status

The thermometer incorporates visual battery status indication:

1. **Battery OK:** measurements are possible
2. **Battery Low:** replace battery with two 1.5V AAA Alkaline cells; measurements are possible
3. **Battery Exhausted:** replace battery; measurements are not possible

EMC/RFI

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

Note: Clean the thermometer probe before each use.

Important: DO NOT LEAVE IN HOT OVEN OR MICROWAVE. HAND WASH AND DRY. DO NOT IMMERSIVE HOUSING IN LIQUID.

Note for Induction Cooktops: Sometimes, the induction cooktop magnetic field may interfere with digital thermometers. If there is interference, briefly turn off the induction cooktop to get a digital thermometer reading or use a dial thermometer.

Tip: Meat should be allowed to “rest” for 10 to 15 minutes after it is removed from oven. This allows time for the meat’s internal temperature to stabilize and the juices to redistribute. This will result in a roast that is both juicier and easier to carve.

CARE OF YOUR PRODUCT

- The sensor lens is the most delicate part of the thermometer and should be kept clean at all times. Take care when cleaning the lens. Use only a soft cloth or cotton swab with water or rubbing alcohol. Allow the lens to dry fully before using the thermometer.
- Do not submerge any part of the thermometer in water. Wipe clean with a damp cloth.
- Store the thermometer at room temperature between -4 to +149°F (-20 to +65°C).

PRECAUTIONS

- Dispose of used battery promptly and keep away from children.
- Always wear a heat resistant glove to touch the stainless steel probe during or just after cooking.
Do not touch with bare hands.
- Keep the batteries, stainless steel probe and sensor cable away from children.
- Clean the probe and dry thoroughly after use.
- Do not clean the case with abrasive or corrosive compound, which may scratch the plastic and corrode the electronic circuits.
- Do not subject the unit to excessive force shock, dust, temperature or humidity, which may result in malfunction, shorter electronic life span, damaged battery and distorted parts.
- Do not tamper with the unit's internal components. Doing so will invalidate the warranty on the unit and may cause unnecessary battery damage and distorted parts.
- Do not subject the unit to excessive exposure to direct sunlight. **The unit is not waterproof** — do not immerse it into water or expose to heavy rain.
- To avoid deformation, do not place the unit in extreme temperatures. Never burn the probe directly over the fire. Do not use the probe when the temperature is above 626°F (330°C). Doing so will deteriorate the probe.
- Do not use the thermometer in a microwave oven.
- Always read the users manual thoroughly before operating.

SPECIFICATIONS

	Infrared Scan	Thermocouple Probe (K type, Grounded)
Measurement Range	-67 to +482°F/ -55 to +250°C	-67 to +626°F/ -55 to +330°C
Operating Range	32 to 122°F (0 to 50°C)	
Accuracy (Tobj=59-95°F/ 15-35°C, Tamb=77°F/25°C)	±1.1°F (0.6°C)	below 23°F (-5°C): ±1.8°F (±1°C) 23 to 149°F (-5 to 65°C): ±0.9°F (0.5°C) above 149°F (65°C): ±1% of reading
Accuracy (Tamb=73.4 ±5.4°F/ 23 ±3°C)	-27.4 to 32°F (-33 to 0°C): ±1.8°F (1°C) + 0.1/degree) 32 to 149°F (0 to 65°C): ±1.8°F (1°C) 149 to 482°F (65 to 250°C): ±1.5% of reading	
Distance:Spot	2.5:1 optics ratio	
Emissivity Range	0.95 default; adjustable 0.1 to 1, step .01	
Response Time (90%)	3 seconds	
Resolution	-67 to +199.9°F (°C): 0.5°F (0.2°C), otherwise 1°F (1°C)	
Power Supply	2 DC 1.5V AAA Alkaline batteries	
Battery Life	Typ. 18 hours continuous use (auto power off after 15 seconds)	
Dimensions	1.5 W x 6.3 H x 0.87 D (inches) (38 W x 160.09 H x 22.18 D mm)	
Weight	3.5 oz (98.1 g) (including battery)	

USDA SAFE FOOD TEMPERATURES

- * Beef, Veal, Lamb – well 160°F . . 71°C
- * Beef, Veal, Lamb – medium. . . 145°F . . 63°C
- * Beef, Veal, Lamb – rare 140°F . . 60°C
- Poultry 165°F . . 74°C
- * Pork/Ham – pre-cooked 145°F . . 63°C
- Ground Meat 160°F . . 71°C

* 3 minutes rest time

“Rest time” is the amount of time the product remains at the final temperature, after it has been removed from a grill, oven or other heat source. During the three minutes after meat is removed the heat source, its temperature remains constant or continues to rise, which destroys harmful bacteria.

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CANDY TEMPERATURE GUIDE

Jelly	220°F	104°C
Thread	230–234°F	110–112°C
Soft Ball	234–240°F	112–115°C
Firm Ball	244–248°F	118–120°C
Hard Ball	250–266°F	121–130°C
Soft Crack	270–290°F	132–143°C
Hard Crack	300–310°F	149–154°C
Caramelize	316–338°F	158–170°C

HIGH ALTITUDE ADJUSTMENT FOR CANDY-MAKING

STAGE	2,000 feet	5,000 feet	7,500 feet
Soft Ball	230–236°F	224–230°F	219–225°F
Firm Ball	238–244°F	232–238°F	227–233°F
Hard Ball	246–264°F	240–258°F	235–253°F
Soft Crack	266–286°F	260–286°F	255–275°F
Hard Crack	296–306°F	290–300°F	285–295°F

OIL TEMPERATURE GUIDE

325–375°F/163–190°C is the normal desired temperature for deep fry cooking.

Note: When food is added to hot oil, the temperature of the oil immediately drops at least 50°F/28°C. You will need to bring the oil temperature back to the desired cooking temperature. Frying at lower temperatures results in lighter color, less flavor development and increased oil absorption.

DEEP FRY TEMPERATURE GUIDE

Deep Fry Lo	325–340°F	163–170°C
Deep Fry Hi	340–365°F	170–185°C
Shrimp	350°F	177°C
Chicken	355°F	180°C
Onions	370°F	188°C
Fish	375°F	191°C
Doughnuts/Fritters	375°F	191°C
French Fries	380°F	193°C

CAUTION: Avoid keeping the thermometer too close to objects that continuously generate high heat for long periods (i.e., hot plate). This can cause the thermometer to overheat.

CE Note: This device could be sensitive to electrostatic discharge. If electrostatic discharge or malfunctioning occurs, please re-install the battery to reset this unit.



Antimicrobial properties are built-in to inhibit the growth of bacteria that may affect this product. According to EPA guidelines we cannot claim that the antimicrobial properties in this product protect users or others against bacteria, viruses, germs, or other disease organisms.

This product does not protect users or others against food-borne bacteria. Always clean and wash this product thoroughly before and after each use.

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1-Year Limited Warranty: Any instrument that proves to be defective in material or workmanship (excluding batteries) within one year of original purchase will be repaired or replaced without charge upon receipt of the unit prepaid at: CDN, PO Box 10947, Portland, OR 97296-0947 USA. This warranty does not cover damage in shipment or failure caused by failure to adhere to the accompanying instructions, inadequate maintenance, normal wear and tear, tampering, accident, misuse, unauthorized modification, obvious carelessness or abuse. CDN shall not be liable for any consequential or incidental damages whatsoever.

For more detailed information on our products, please visit CDNmeasurement.com or call 800-338-5594.

