

CEN-TECH®

NON-CONTACT POCKET THERMOMETER

Model 93983

INSTRUCTIONS AND PRECAUTIONS

Distributed exclusively by Harbor Freight Tools®.
3491 Mission Oaks Blvd., Camarillo, CA 93011
Visit our website at: <http://www.harborfreight.com>



**SAVE THESE
INSTRUCTIONS.
READ ALL
PRECAUTIONS AND
INSTRUCTIONS.**

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**For technical questions, please call
1-800-444-3353.**

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SKU 93983

SPECIFICATIONS

Measurement Range	-27° – 230° F
Operating Temperature	14° – 122° F
Resolution	0.1° F; 0.01 second
Accuracy (at 68° to 78° F ambient)	±2%, ±4° F Readings may be affected if within an electromagnetic field.
Field of View	1:1
Emissivity	0.95
Battery	one CR2032 lithium cell
Battery Life	about 40 hours continuous use

UNPACKING

When unpacking, make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at 1-800-444-3353 as soon as possible.

IMPORTANT SAFETY INFORMATION

Use Precautions

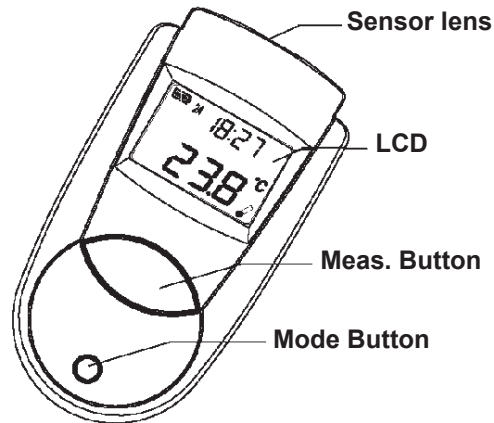
1. Do not use for food safety or medical applications.
2. This product is not a toy. Do not allow children to play with this item.
3. Use as intended only.
4. Inspect before every use; do not use if parts loose or damaged.
5. Maintain product labels and nameplates. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

Service Precautions

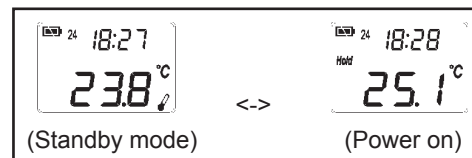
1. Wear ANSI-approved safety goggles and heavy-duty work gloves when replacing battery.

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CONTROLS

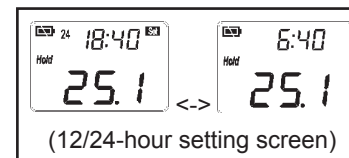


CLOCK SETUP



Note: The display will go to standby mode and show the current time and room temperature after use if the clock is set. If the clock is not set, the display will shut off after use, conserving battery power.

1. Press “Meas.”.
2. Press “Mode” six times and the “Set” icon starts to flash, indicating setup mode.



3. Press “Meas.” to make the “24” icon flash, which indicates the 12/24-hour setting screen. Press “Meas.” again to set 12/24-hour Format from 24-hour to 12-hour.

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4. Press “Mode” to switch to hour setting. Use “Meas.” to change it.
5. Press “Mode” to switch to minute setting mode. Use “Meas.” to change it.
6. Press “Mode” when complete.
7. To disable standby mode and enable the automatic shutoff, remove the battery for at least a minute and do not set the clock after replacing the battery.

TEMPERATURE UNIT SETUP

1. Press “Meas.” once to turn the unit on.
2. Press “Mode” five times and the temperature unit icon starts to flash (either °C or °F).
3. Press “Meas.” to toggle the unit between °C and °F.
4. Press “Mode” when complete.

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THERMOMETER OPERATION

Note: The Distance to Spot size ratio is 1:1. Make sure the target area is within the field of view.

Note: Applications include Water, Milk, Cloth, or Skin (non-medical, for entertainment only).

Normal Mode

1. Make sure the sensor lens is clean and undamaged.
2. Press "Meas." once to turn the unit on.
3. When you press "Meas.", you will get the temperature immediately. If you hold down "Meas.", the reading of measurement will be continuously updated.
4. Device will automatically power off/standby if left idle for more than 15 seconds.

Lock Mode

1. Make sure the sensor lens is clean and undamaged.
2. Press "Meas." once to turn the unit on.
3. Press "Mode" three times and the unit will display the LOCK icon, shown right.
4. Press "Meas." to confirm and start continually reading temperature.
5. The thermometer will continue measuring temperatures up to an hour, or until "Meas." is pressed again.



Minimum / Maximum Reading Mode

1. Make sure the sensor lens is clean and undamaged.
2. Press "Meas." once to turn the unit on.
3. Press "Mode" once for Minimum (MIN) mode or twice for Maximum (MAX) mode.

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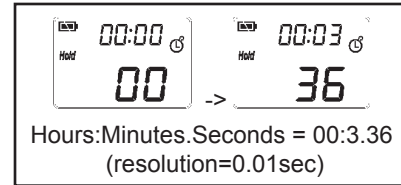
SKU 93983

The display will show the icon for the mode chosen (MIN/MAX).

4. Press "Meas." to confirm.
5. Press "Meas." to start reading temperature. The display will only show either the lowest or highest temperature read, depending on the mode.
6. Device will automatically power off/standby if left idle for more than 15 seconds.

TIMER OPERATION

1. Press "Meas." once to turn the unit on.
2. Press "Mode" four times and the "count" icon starts to flash.



3. To start or stop timer, press "Meas.". To reset the timer, press "Mode" with the timer stopped.
4. Press "Mode" again to exit the timer mode.

BATTERY REPLACEMENT

1. If the display appears as above, the battery is too low to allow further operation.
2. Allow the unit to turn off or go to standby mode. **The device may malfunction if the battery is removed while on.**
3. Turn open the cover on the rear of the thermometer.
4. Replace with another CR2032 battery in the same orientation.

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STORAGE AND CLEANING

1. Keep the sensor lens clean using a soft cloth or cotton swab dipped in water or rubbing alcohol. Allow the lens to dry fully before use.
2. Storage temperature: -4° – 149° F

TROUBLESHOOTING

Icon	Problem	Probable Solution
	Temperature above 230° F.	Object being measured must be within thermometer range.
	Temperature below -27° F.	
	Ambient temperature changing too rapidly for accurate reading.	Allow unit to rest in stable temperature from 14° to 122° F for at least 30 minutes before use.
	Ambient temperature outside 14° F to 122° F range.	
	Other error message.	<ol style="list-style-type: none"> 1. Wait for unit to power off, then remove the battery for a minute. 2. If unit still displays error message, it must be serviced by a qualified service technician.
	Unit will not shut off. Notice LOCK icon in center of example screen.	If LOCK icon is displayed, unit is in lock mode. Press "Meas." to exit lock mode.
	Unit will not shut off. Notice thermometer in lower right corner of example screen.	If thermometer is displayed, unit has been set to power down to standby mode. To allow unit to shut off completely: While in standby mode remove battery for 1 minute, and then do not set time after reinstalling battery.

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LIMITED 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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Record Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Replacement parts are not available for this item.

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