

BLACK+DECKER

INSTRUCTION MANUAL Thermometer



BDXTMB100
Printed in China
Part No. THE-PUM-100-E11
English
Please read before returning this product for any reason.

Before operating the appliance, please read all safety and operating instructions. Save all instructions in a safe place for future reference.

Definitions: Safety Alert Symbols and Words

This instruction manual uses the following safety alert symbols and words to alert you to hazardous situations and your risk of personal injury or property damage.

- DANGER:** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
- WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
- (Used without word) Indicates a safety related message.
- NOTICE:** Indicates a practice **not related to personal injury** which, if not avoided, may result in property damage.

WARNING: Read all safety warnings and all instructions.

WARNING: To reduce the risk of injury, read the instruction manual.

PROP 65 WARNING: This product can expose you to chemicals including Styrene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliances, basic precautions should always be followed, including the following:

WARNING:

- Use only as described in this manual. Use only manufacturer's recommended attachments.
- Never modify the product or any part of it. Damage or personal injury could result.
- Do not operate outdoors.
- Please do not disassemble and repair it by yourself, contact our Customer Service Center when necessary.
- This appliance is intended for household use only and not for commercial or industrial use.
- This appliance shall not be used by children. Keep the appliance out of reach of children.
- Never immerse the thermometer into water or other liquids (it is not waterproof). For cleaning and disinfecting, please follow the instructions in the "Care and cleaning" section on page 15.
- Never use the thermometer for purposes other than those it has been intended for. Please follow the general safety precautions when using on children.
- Keep the thermometer away from direct exposure to the sun and keep it in a dust-free, dry area, well-ventilated place at a temperature between 50°F (10°C)- 104°F (40°C). Do not use the thermometer in high humidity environments (>95% RH).
- Do not use the thermometer if there are signs of damage on the measuring sensor or on the appliance itself. If damaged, do not attempt to repair the appliance!
- This thermometer consists of high-quality precision parts. Do not drop the appliance. Protect it from severe impact and shock. Do not twist the appliance or the measuring sensor.
- Please consult your doctor if you see symptoms such as unexplained irritability, vomiting, diarrhea, dehydration, changes in appetite or activity, seizure, muscle pain, shivering, stiff neck, pain when urinating, etc., even in the absence of fever.
- Even in the absence of fever, those who exhibit a normal temperature may still need to receive medical attention. People who are on antibiotics, analgesics, or antipyretics should not be assessed solely on temperature

SAFETY INSTRUCTIONS

readings to determine the severity of their illness.

- Temperature elevation may signal a serious illness, especially in adults who are old, frail, have a weakened immune system, or neonates and infants. Please seek professional advice immediately when there is a temperature elevation and if you are taking the temperature for whom are:
 - Over 60 years of age (Fever may be blunted or even absent in elderly patients)
 - Having diabetes mellitus or a weakened immune system (e.g., HIV positive, cancer, chemotherapy, chronic steroid treatment, splenectomy)
 - Bedridden (e.g., nursing home patient, stroke, chronic illness)
 - A transplant patient (e.g., liver, heart, lung, kidney)
- This thermometer is not intended for pre-term babies or small-for-gestational-age babies. This thermometer is not intended to interpret hypothermic temperatures.
- Use of this thermometer is not intended as a substitute for consultation with your physician or pediatrician.
- Clean the thermometer probe after each use.
- Do not use the thermometer on newborns or for continuous temperature monitoring purposes.
- Do not take a measurement while or immediately after nursing a baby.
- Patients should not drink, eat, or be physically active before/while taking the measurement.

CUSTOMER ASSISTANCE

Product Service & Support

For any questions about operating this new BLACK+DECKER branded product, PLEASE CONTACT US FIRST...do not return this product to the retail store. The contact information for support will vary depending on the country in which you purchased and utilize the product.

To obtain warranty service or other information for products purchased from CT Nova itself or through its authorized reseller or agent and utilized in the U.S.A., please visit www.ctnovatech.com. You will receive instructions on how to ship the products at your expense to an our Authorized Service Center. To obtain service, you must include: (a) a copy of your receipt, bill of sale or other comparable proof of purchase; (b) a written description of the problem; and, most importantly; (c) your address and telephone number. For further information needed on its features, please visit www.blackanddecker.com for frequently asked questions and the electronic manual.

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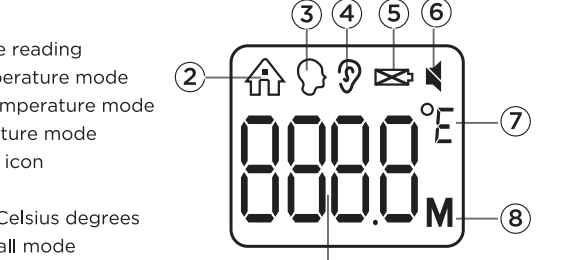
Getting to know your Infrared thermometer

Infrared Thermometer measures the body temperature based on the infrared energy emitted from the eardrum or the forehead. Users can quickly get measurement results after positioning properly the measurement probe in the ear canal or forehead. Normal body temperature is a range. The tables on page 7 show that this normal range also varies by site. Therefore, readings from different site should not be directly compared. Tell your doctor what type of thermometer you used to take your temperature and on what part of the body. Also, bear this in mind if you are diagnosing yourself.

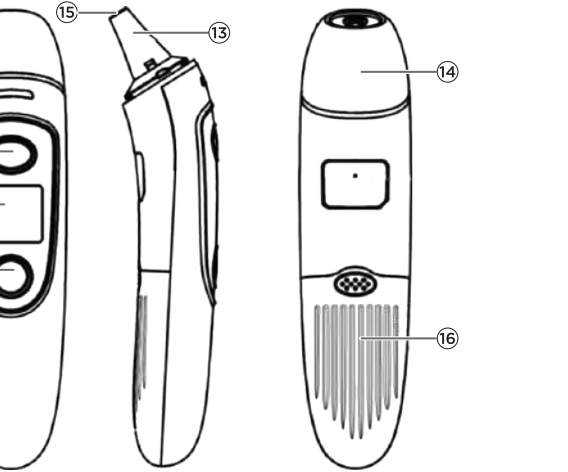
FEATURES

- Quick measurement, less than 1 second
- Accurate and reliable
- Easy operation, one single measuring button fits for both ear and forehead measurement
- Multi-functional, can measure ear, forehead and object temperature
- 35 sets of memories, easy to recall
- Mute operation available
- Fever alarm function, displayed in orange and red light
- °F and °C reading selectable
- Auto shut-down and power-saving

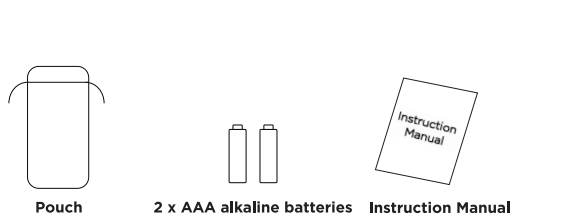
DISPLAY DESCRIPTION



PRODUCT VIEW



MAJOR COMPONENTS AND ATTACHMENTS



OPERATING INSTRUCTIONS

Indications for use

This Infrared Thermometer is intended for the measurement of human body temperatures. The forehead mode is indicated for people of all ages and the eardrum mode is indicated for people above three months old. The following table shows the Normal body temperature ranges on different locations of a body:

	Measurements
Forehead temperature	97°F to 99.5°F (36.1°C to 37.5°C)
Ear temperature	96.4°F to 100.4°F (35.8°C to 38°C)
Oral temperature	95.9°F to 99.5°F (35.5°C to 37.5°C)
Rectal temperature	97.9°F to 100.4°F (36.6°C to 38°C)
Axillary temperature	94.5°F to 99.1°F (34.7°C to 37.3°C)

HOW TO USE YOUR THERMOMETER

When first time use, install 2 AAA alkaline batteries to the thermometer. Slide down the battery cover, then insert and position the batteries into the battery compartment according to polarity markings. And, replace the battery door and close securely.

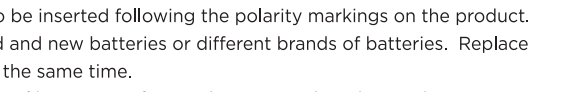
WARNING:

- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (Ni-Cd, Ni-MH, etc.) batteries.
- Do not attempt to charge alkaline batteries.
- Remove the batteries from the instrument if it is not required for extended periods of time in order to avoid damage to the thermometer resulting from a leaking battery.

OPERATING INSTRUCTIONS

1) Take your forehead temperature

Aim and hold the thermometer and keep in contact with or within 3 cm contactlessly from the center of the forehead, then press and release the Measurement button, you can now read the value.



NOTE: The forehead measurement is an indicative reading. The measured forehead temperature can fluctuate up to 1 °F/0.5 °C from your actual body temperature. Please be aware of the "TEMPERATURE TAKING TIPS" on Page 12 and "WARNINGS AND PRECAUTIONS" on Page 1-4.

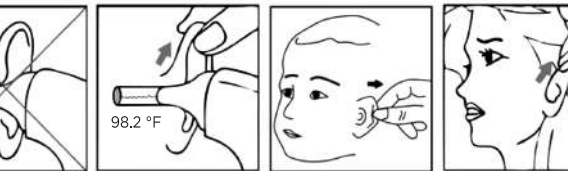
WARNING:

- If the eyebrow area is covered with hair, sweat or dirt, please clean the area beforehand to improve the reading accuracy.
- Always check if the lens is clean.

OPERATING INSTRUCTIONS

2) Take your ear temperature


Take off the probe cover, fit the probe snugly into the ear canal. Press and release the Measurement button in 1 second, the beep is heard, you can now read the value.

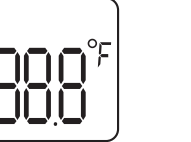


WARNING:

- Do not use the thermometer if an ear of patient is infected with otitis or suppuration.
- Please make sure that the ear is clean, with no earwax or obstructions.
- The right ear reading may differ from the reading taken at the left ear. Therefore, always take the temperature in the same ear.
- Do not use on newborns. For children under 1 year: Pull the ear straight back gently.
- Children aged 1 year to adult: Pull the ear up and back.
- Do not force the thermometer into the ear canal. Otherwise, the ear canal may get injured.
- When taking the temperature on an adult, gently pull the ear up and back to make sure the ear canal is straight, so that the temperature probe can receive an infrared from the eardrum.
- Be careful when taking a temperature on a child, whose ear canal is small.

3) Take room/object temperature

When the thermometer is power off, press the **Memory/Mute/Object Temperature Mode** button for 3 seconds until  icon is displayed. Then press and release the Measurement button to measure, you can now read the value. Keep the thermometer about 1.4-2 inch away from the object.



4) After a measurement

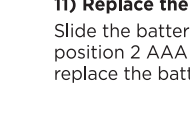
Once the reading has been completed, remove the thermometer away from the forehead/ear and observe the temperature. After each measurement, you can enter the recall mode and check earlier temperature readings.

- ⚠ WARNING:**
- Do not hold the thermometer for a long time, because it may increase the device temperature that would make the measurement incorrect probably.
 - After each measurement, clean the temperature probe with a soft cloth and put the thermometer in a dry and well-ventilated place.
 - You should wait at least 10 seconds between each measurement.
 - It is dangerous to make a self-diagnosis or self-treatment based on the obtained measurement results.

- 5) Read your temperature**
- In forehead or ear mode.
- If the temperature reading is equal to or between 89.6°F and 99.2°F (32°C and 37.3°C), then the green LED Indicator will light for three seconds and a long beep tone will sound.
 - If the temperature reading is equal to or between 99.3°F and 100.3°F (37.4°C and 37.9°C), then the orange LED Indicator will light for three seconds, three short beep tones will sound and the temperature reading on the LCD will blink. This is a warning that you might have a slight fever.
 - If the temperature reading is equal to or between 100.4°F and 109.2°F (38°C and 42.9°C), then the red LED Indicator will light for three seconds, five short beep tones will sound and the temperature reading on the LCD will blink. This is a warning that you might have a high fever.

6) Switching between mute and un-mute

When the thermometer is turned on, press and hold the **Memory/Mute/Object Temperature Mode** button for around 3 seconds to toggle mute option under forehead or ear measurement mode. Mute icon is displayed when it is mute.



7) Checking 35 sets of memory data

When the thermometer is power off, or under forehead or ear measurement mode, press and release the **Memory/Mute/Object Temperature Mode** button to go to the memory recall mode, press this button again to check the 35 sets of record one by one starting from latest. If there is no recorded value, it will display "----M".

8) °F/°C conversion

Open the battery cover, use the toggle switch to change the °F/°C.

9) Temperature compensation adjustment

When the thermometer is turn on, press both the **Memory/Mute/Object Temperature Mode** button and **Measurement** button for 2-3 seconds to go to the temperature compensation mode. By pressing the **Memory/Mute/Object Temperature Mode** button to adjust the temperature from +/-0° to +/-2.0°.

Note: All the future temperature you are taking will be automatically set the value you are adjusted.

10) To turn off

The unit will shut down automatically after 10 seconds of no use. Or you can keep pressing the **Measurement** button for 5-7 seconds.

- ⚠ WARNING:**
- All memory records will be lost when uninstalling or reinstalling the battery.
 - All settings will come to default when reinstalling the battery. If need to adjust the settings, please power on and make the new settings.

11) Replace the battery.

Slide the battery cover down to open the battery compartment. Install and position 2 AAA batteries in correct polarity into the compartment. Then, replace the battery cover and close securely.

TEMPERATURE TAKING TIPS

- It is important to know each individual's normal temperature when they are well. This is the only way to accurately diagnose a fever. Record readings twice a day (early morning and late afternoon). Take the average of the two temperatures to calculate the normal oral equivalent temperature. Always take the temperature in the same location, since the temperature readings may vary from different locations on the forehead.
- A child's normal temperature can be as high as 99.9°F (37.7°C) or as low as 97.0°F (36.1°C). Please note that this unit reads 0.9°F (0.5°C) lower than a rectal digital thermometer.
- External factors may influence ear temperatures, including when an individual has:
 - been lying on one ear or the other
 - had their ears covered
 - been exposed to very hot or very cold temperatures, or
 - been recently swimming or bathing





In these cases, remove the individual from the situation and wait 20 minutes prior to taking a temperature. Use the untreated ear if prescription ear drops or other ear medications have been placed in the ear canal.

- Before placing the thermometer sensor onto the forehead, remove dirt, hair, or sweat from the forehead area. Wait 10 minutes after cleaning before taking a measurement.
- Use an alcohol swab to carefully clean the sensor and wait for 5 minutes before taking a measurement on another patient. Wiping the forehead with a warm or cool cloth may affect your reading. It is advised to wait 10 minutes before taking a reading.
- In the following situations it is recommended that 3-5 temperature measurements in the same location are taken and the highest one taken as the reading:
 - Newborn infants in the first 100 days.
 - Children under three years of age with a compromised immune system and for whom the presence or absence of fever is critical.

SPECIFICATIONS

Product name	Infrared thermometer	
Power rating	DC1.5V x2	
Measurement range	Ear & Forehead:	89.6°F-109.2°F(32.0°C-42.9°C)
	Object:	32°F-212°F (0°C-100°C)
Accuracy (Laboratory)	Ear & Forehead mode	+/-0.4°F (+/-0.2°C)
	Object mode	+/-1.8°F (+/-1.0°C)
Display resolution	0.1°F/°C	
Automatic shutdown	10s +/-1s	
Memory	35 groups of the measured temperature.	
Operational conditions	Temperature: 50°F-104°F(10°C-40°C)/ Humidity: 15-95%RH, non-condensing Atmospheric pressure: 86-106 kPa	
Battery	2 x AAA	
Weight & Dimension	2.3oz (without battery), 6.42x1.54x1.53inch	

SYMBOLS

Symbol	Description
	Type BF applied part.
	Information about a factory
	Please read the instructions carefully.
	Waste electrical materials should be sent to a dedicated collection point for recycling.
S/N	Serial number
LOT	Batch number
IP22	Protected against solid foreign objects greater than 12.5 mm in diameter and dripping water when tilted at 15

CARE AND CLEANING

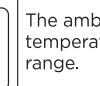
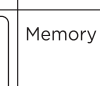
Use an alcohol swab or cotton swab moistened with 70% alcohol to clean the thermometer casing and the measuring probe. After the alcohol has completely dried out, you can take a new measurement.

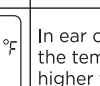
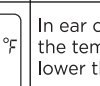
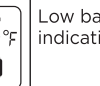

Ensure that no liquid enters inside the thermometer. Never use other cleaning agents or chemicals for cleaning, and never immerse the instrument in water or other liquids. Avoid to scratch the surface of the LCD screen.

- ⚠ WARNING:**
- To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment should be performed by a CT Nova factory service center or a CT Nova authorized service center. Always use identical replacement parts.

TROUBLESHOOTING

Review this table to find do-it-yourself solutions for minor performance problems. Any other service needed should be performed by qualified service agent.

Symptom	Possible Cause	Description & Solution
1 Failed to power on	The battery level is too low.	Replace with new batteries.
	Polarities of the batteries are reversed.	Ensure the batteries are installed in the right position and polarity.
	The thermometer is damaged.	Contact dealer.
2 The reading is too low	The lens of the probe is dirty.	Clean the lens of sensor with a cotton swab.
	The distance of the item and target is too far.	Keep the thermometer in contact with forehead, or put the probe into the Ear Canal.
	You have just come from a cold environment.	Stay in a environment with room temperature conditions for at least 30 minutes before taking a reading.
3 The reading is too high	You have just come from a hot environment.	Stay in a environment with room temperature conditions for at least 30 minutes before taking a reading
4 	The ambient operation temperature is out of range.	3 short beeps and red backlight for 3 seconds. Take a measurement under an ambient temperature between 50.0°F (10°C) and 104°F (40°C).
5 	Memory Error.	3 short beeps and red backlight for 3 seconds. Contact dealer.

Symptom	Possible Cause	Description & Solution
6 	In ear or forehead mode, the temperature reading is higher than 109.2°F (42.9°C).	3 short beeps and red backlight for 3 seconds. Follow the instruction manual and retake the measurement.
7 	In ear or forehead mode, the temperature reading is lower than 89.6°F (32°C).	3 short beeps and red backlight for 3 seconds. Follow the instruction manual and retake the measurement.
8 	Low battery warning indication.	The battery level is low, it suggests you to replace the battery, but you can continue to use it.
9 	Battery run out.	It will turn off automatically after 30 seconds. Please replace with new batteries.

WARRANTY & TRADEMARK ACKNOWLEDGEMENT

Three-Year Limited Warranty

CT Nova warrants to the original consumer purchaser only that this product and the component parts thereof will be free from defects in workmanship and materials. CT Nova will, repair or replace, at its sole option and discretion, this product or any defective parts. CT Nova's liability hereunder shall be limited to repair or replacement of the defective part or parts, and such correction shall constitute a fulfillment of all of CT Nova's warranties hereunder.

This limited 3-year warranty is only valid for the original consumer purchaser in limited jurisdictions and is not transferrable. This limited 3-year warranty will automatically terminate if this product is sold or otherwise transferred to another party. The product must be purchased from CT Nova or an authorized dealer or the warranty is void. This limited 3-year warranty is valid only for products purchased and utilized in specific jurisdictions. Please visit our website at www.ctnovatech.com for a list of jurisdictions wherein this 3-year limited warranty is valid.

This limited 3-year warranty does not apply to accessories and consumables and does not cover damage due to misuse, abuse, negligence, acts of God, accident, commercial use or modification of, or to any part of this product. This warranty does not cover damage due to improper operation, maintenance or installation; ordinary wear and tear; or attempted alter actions or repairs by anyone other than CT Nova or someone authorized by CT Nova to do warranty work. Any unauthorized alterations or repairs will void this warranty. This

Limited 3-year warranty does not cover product sold AS IS or WITH ALL FAULTS. This limited 3-year warranty is invalid if the factory applied serial number or date stamp has been altered, defaced or removed from this product. This limited 3-year warranty does not cover product purchased or utilized in a jurisdiction not covered.

The procedure for obtaining service and support, and the applicability of this warranty, will vary depending on the country or jurisdiction in which you purchase and utilize the product. For details on obtaining product service, support and other warranty information please visit www.ctnovatech.com.

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

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Some states and countries do not allow limitations on how long an implied warranty lasts and do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country. Provided that the product was purchased from CT Nova itself or through its authorized reseller or agent and utilized in the U.S.A., CT Nova will, without charge, repair or replace, at its option, defective products, products or component parts upon delivery to the authorized CT Nova Authorized Service Center, accompanied by proof of the date of first customer purchase, such as a duplicated copy of a sales receipt.

You must pay any initial shipping charges required to ship the product for warranty service, but the return charges, to an address in the U.S.A. will be at CT Nova's expense, if the product is under warranty.

For Products Purchased Outside the U.S.A.

Please contact your authorized local reseller or agent for warranty information.

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