

124mm

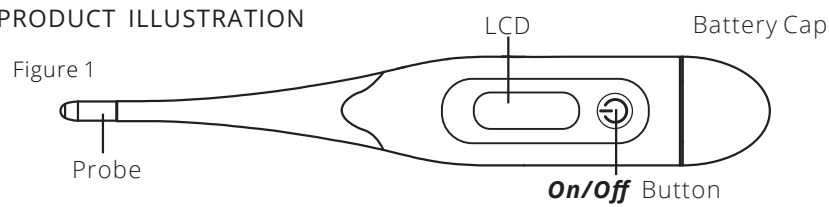
BION® Digital Oral Thermometer

Model: LB100

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PRODUCT ILLUSTRATION



Introduction

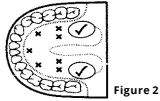
This digital thermometer provides quick and accurate reading of a human body temperature. The thermometer is intended to measure the body temperature orally, rectally or under the arm. This device is reusable for clinical or home use, on people of all ages. To better understand its functions and to ensure reliable results, please read the user manual.

DIRECTIONS

- Press the power button next to LCD display. A tone will sound as the screen shows **188.8%**, followed by the last recorded temperature. Once °C icon starts blinking, the thermometer is ready to measure.

Position thermometer in the desired location (mouth, rectum, or armpit).

- Oral Use:** Place thermometer under tongue as indicated by "✓" (shown in Figure 2). Close your mouth and breathe evenly through the nose. Normal temperature lies between 35.7°C and 37.3°C (96.3°F and 99.1°F).
 - Rectal Use:** Lubricate silver probe tip with petroleum jelly for easy insertion. Gently insert sensor approximately 1cm (less than 1/2") into rectum. Normal temperature lies between 36.2°C and 37.7°C (97.2°F and 99.9°F).
 - Armpit Use:** Dry the armpit. Place the probe under the armpit and keep the arm firmly pressed by the side. Please note that this method is not as reliable and provides inaccurate readings. This method should not be used if precise measurements are required. Normal temperature lies between 35.2°C and 36.7°C (95.4°F and 98.1°F).
- The °C icon will blink throughout the measurement. Once the blinking stops, an alarm will ring for 10 seconds and a reading will appear on the LCD.
 - To prolong battery life, press the Power Button to turn off thermometer after measurement. If no action is taken, the unit will shut down automatically after 10 minutes.



°C/°F SWITCHABLE

Temperature readings are available in the Celsius or Fahrenheit scale (°C/°F), as indicated in the upper right corner of LCD. When thermometer is switched off, press and hold the Power Button for 3 seconds to change the current setting.

CLEANING AND DISINFECTION

Wipe the thermometer with a soft clean cloth.
For stubborn stains, wipe the thermometer with a cloth that has been dampened with water or a neutral detergent solution. Dry with a soft dry cloth.
For disinfection, 75% Ethanol or isopropyl alcohol may be used.
Please **DO NOT** use the following methods, to avoid damaging the thermometer:
-Use benzene, thinner, gasoline or other strong solvents to clean the thermometer.
-Disinfect the sensing section (tip) of the thermometer by immersing in alcohol or in hot water (water over 50°C(122°F)).
-Ultrasonic washing to clean the thermometer.

TROUBLESHOOTING

Error message	Problem	Solution
Lo	Temperature taken is lower than 32.0°C(90.0°F)	Turn off, wait one minute and take a new temperature via close contact and sufficient rest.
Hi	Temperature taken is higher than 42.9°C(109.9°F)	Turn off, wait one minute and take a new temperature via close contact and sufficient rest.
Err	The system is not functioning properly.	Unload the battery, wait for 1 minute and repower it. If the message reappears, contact the retailer for service.
	Dead battery: Battery icon is flashing.	Replace the battery.

BATTERY REPLACEMENT



Figure 3



Figure 4

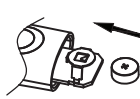


Figure 5

- Replace battery when "■" appears in the lower right corner of LCD display.
- Pull battery cover off as shown in Figure 3.
- Gently pull out plastic circuit board with battery chamber approximately 1 cm (slightly less than 1/2"). (See Figure 4)
- Use a pointed object such as a pen to remove the old battery. Discard the battery lawfully. Replace with a new 1.5V DC button type LR41 or SR41, UCC392, or equivalent. Be sure battery is installed with "+" polarity facing up. (See Figure 5)
- Slide battery chamber back into place and attach cover.

CALIBRATION

The thermometer is calibrated at the time of manufacture. If the thermometer is used according to instructions, periodic readjustment is not required. However, it is recommended to check the calibration biannually or when clinical accuracy of the thermometer is in question. Switch on the thermometer, insert into the water bath and check the accuracy of the thermometer. If accuracy is questionable, please send the complete device to the dealers or manufacturer.

The above recommendations do not supersede the legal requirements. The user must always comply with legal requirements for the control of the measurement, functionality, and accuracy of the device which are required by the scope of relevant laws, directives or ordinances where the device is used.

Caution

- ⚠ Read the instructions thoroughly before using digital thermometer.
- ⚠ Choking Hazard: Thermometer cap and battery may be fatal if swallowed. Do not allow children to use this device without parental supervision.
- ⚠ Do not use thermometer in ears. Only use it for oral, rectal, and armpit (axilla) only.
- ⚠ Do not place thermometer battery near extreme heat to avoid explosions.
- ⚠ Note: Use of the probe cover may result in a 0.1°C(0.2°F) discrepancy from actual temperature.
- ⚠ Remove thermometer battery from thermometer when not in use for an extended period of time.
- ⚠ Do not take measurements when the thermometer is wet to avoid inaccurate readings.
- ⚠ Do not bite the thermometer to avoid breakage and/or injury.
- ⚠ Do not disassemble or repair thermometer. Doing so may result in inaccurate readings.
- ⚠ Use of temperature readings for self-diagnosis is dangerous. Consult your doctor for interpretation of results. Self-diagnosis may worsen the conditions.
- ⚠ After each use, disinfect thermometer when the thermometer is shared.
- ⚠ Do not force thermometer into the rectum. When in pain, stop insertion and abort the measurement.
- ⚠ Failure to do so may lead to injury.
- ⚠ Do not use thermometer orally after being used rectally.
- ⚠ For children who are two years old or younger, do not use the thermometer orally.
- ⚠ If the unit has been stored at temperatures over 40°C(104°F), leave it in ambient temperature, 5°C~40°C (41°F~104°F), for 15 minutes before using it.

Disclaimer



- * The performance of the device may be degraded due to the following reasons:
 - Operation outside the manufacturer's stated temperature and humidity range.
 - Storage outside the manufacturer's stated temperature and humidity range.
 - Mechanical shock (for example, drop test) or degraded sensor.
 - Patient temperature is below ambient temperature.
- * Portable and mobile RF communications can affect the device. The device needs special pre-cautions regarding EMC according to the EMC information provided in the accompany documents.

SPECIFICATIONS

Type:	Digital thermometer (not predictive)
Measure Range:	32.0°C~42.9°C(90.0°F~109.9°F)
Accuracy:	±0.1°C(±0.2°F) during 35.5°C~42.0°C(95.9°F~107.6°F) at 18°C~28°C(64.4°F~82.4°F) ambient operating range ±0.2°C(±0.4°F) for other measuring and ambient operating range
Operating mode:	Direct mode
Display:	Liquid crystal display, 3 1/2 digits
Memory:	For storing the last measured value
Battery:	One 1.5 V DC. button battery (size LR41 or SR41, UCC 392)
Battery life:	Approx. 200 hours of continuous operation or 1 year with 3 measurements per day
Dimension:	13.9cm x 2.2cm x 1.2cm (L x W x H) Approx. 12 grams including battery
Weight:	Temperature: 5°C~40°C(41°F~104°F)
Expected service life:	Three years
Ambient operating range:	Temperature: 5°C~40°C(41°F~104°F) Relative humidity: 15%~95%RH Atmospheric Pressure: 700hPa ~ 1060hPa
Storage and transportation condition:	Temperature: -20°C~55°C(-4°F~131°F) Relative humidity: 15%~95%RH Atmospheric Pressure: 700hPa ~ 1060hPa
Ingress Protection Rating:	IP 27
Classification:	Type BF

This appliance conforms to the following standards:
EN 12470-3 Clinical thermometers —Part 3: Performance of compact electrical thermometers (non-predictive and predictive) with maximum device,
ISO 80601-2-56 Medical electrical equipment —Part 2-56:Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement,
EN 60601-1-11 Medical electrical equipment —Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in home healthcare environment and complies with the requirements of EN 60601-1-2(EMC), IEC/EN60601-1(Safety) standards. The manufacturer is ISO 13485 certified.

LIMITED WARRANTY

The thermometer is entitled to 2 years off-site warranty on manufacturing defects, from the date of purchase, with the original invoice/receipt as proof of purchase.

This warranty does not cover
- damages or defects arising from accident, misuse, mishandling, improper installation, any manner of tampering, usage of wrong electrical supply/voltage, corrosion/fungus, rusting or stains, any unauthorized repair or modification to the product, act of god, fire, civil unrest and consequential damages.
- Batteries
- Normal wear and tear.
- in the event that the serial number on the product has been altered or removed.



Disposal of this product and used batteries should be carried out in accordance with the national regulations for the disposal of electronic products.

Product of:
Bion Advance Pte. Ltd.
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Singapore 628475
www.bionmedicalgroup.com

Document No.: DMT-7304-012
Article No.: 001
Version: B
Date of Issue: 2017.11



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The product is in compliance with the requirements of MDD 93/42/EEC, "0197" is the identification number of notified body.

SYMBOL EXPLANATION

	Direct Current		Batch Code
	Type BF Applied Part		Manufacturer
	Consult Accompanying Documents		Storage and Transportation Temperature Limit: -20°C ~ 55°C (-4°F ~ 131°F)
	European Authorized Representative		

320mm