

Digital Thermometer Instruction Manual

Model: MT-B117 (flexible tip)

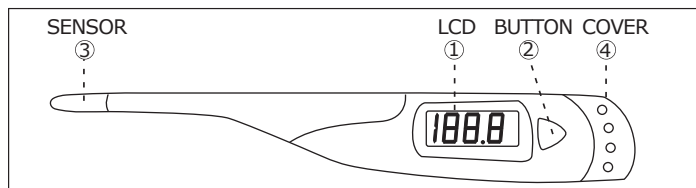
• Before you use the unit, please read this user manual thoroughly and carefully.

⚠ PRECAUTIONS FOR USE

- The device can be used by all persons, including children, elderly person & Patient. Handicapped persons and Children need assistance by another person to use the device.
- This unit is intended to measure body temperature in oral, axillar and rectal.
📖 Do not use it for any other purpose.
- Use of the device is not intended to be a substitute for consultation with your physician.
- Disregarding the information given in this instruction manual is considered to be abnormal use.
- The device is for indoor use only. Please do not use the device under a noisy environment.
- If the thermometer has been stored at a hot/cold temperature, wait for at least 2 hours before using.
- After showering, exercising, eating or drinking, wait for 30 minutes before you intend to measure your temperature.
- When inserting the unit (for oral and rectal use), insert it gently.
- Do not boil the probe, instead clean and disinfect the unit by wiping it with dry cloth and clean and disinfect the probe with medical alcohol (75%).
- Do not expose the unit to direct sunlight or high temperatures.
- Do not bend the unit out of shape.
- Do not bite or pull the unit.
- Keep the thermometer out of reach of children.
- Do not use this device close to strong electromagnetic fields such as mobile telephones or radio installations. Keep a minimum distance of 3.3 m from such devices when using this device.
- If it displays "Err", it means the unit does not work properly. Please contact your retailer.

📖 WARNING: No modification of this equipment is allowed.

PARTS DESCRIPTION



TECHNICAL SPECIFICATION

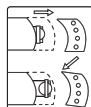
Measurement range:	32.0°C ~ 43.0°C	89.6°F ~ 109.4°F
Laboratory accuracy:	±0.2°C - 32.0°C ~ 35.4°C ±0.1°C - 35.5°C ~ 42.0°C ±0.2°C - 42.1°C ~ 43.0°C	±0.3°F - 89.6°F ~ 95.7°F ±0.2°F - 95.9°F ~ 107.6°F ±0.3°F - 107.8°F ~ 109.4°F
Display unit:	0.1°C	0.1°F
Storage(transport)condition:	-25°C ~ 55°C (-13°F ~ 131°F) / 15% - 90% RH	
Operation condition:	15°C ~ 40°C (59°F ~ 104°F) / 15% - 90% RH / 700 - 1060 hpa	
Battery:	One 1.5V button size battery (LR 41)	
Power consumption:	0.15 MW in measurement mode	
Battery life:	More than 200 hours of continuous operation	
Weight:	Approx. 12 grams including battery	
Dimensions:	127mm x 22.1mm x 12mm	
Applied part:	👤 type BF (sensor)	
IP Class:	IP 22	

BATTERY REPLACEMENT

When the battery is almost exhausted, the battery symbol "🔋" will appear on the LCD window ①.

Please replace the battery and follow the instruction below

- Slide back the battery cover.
- Carefully remove the battery from its holder by using a pointed object.
- Insert a new battery (LR41) with the "+" symbol at the top.
- When replacing the battery cover, take care that the seal is not damaged.



- ⚠ Do not recharge the battery.
- ⚠ Do not swallow the battery which may be fatal.
- ⚠ Do not dispose of the battery in fire as it may explode.
- ⚠ Do not attempt to disassemble the unit except battery replacement.
- ⚠ Remove the battery if not to be used for some time.



OPERATION

- Press the button ②, the LCD window ① will display 188.8 indicator for approx. 2 seconds.
- After switching on, the thermometer will display the last memorized value with the "M" icon for approx. 2 seconds.
- The LCD window ① will then display "Lo", which means you can start to measure the temperature.
- While the temperature is being measured, the "°C" mark will permanently flicker during the measuring time. The measuring time will depend on the ambient temperature, the patient temperature and the quality of the contact between the sensor and the tissue or skin.
- When the sensor reaches its thermal equilibrium or peak, the °C mark will stop flickering and an electronic buzzer will emit beep sounds. At this time, final temperature is shown.
- After measuring, the measured temperature will be indicated on the LCD window ① until you switch off the thermometer.
- To prolong the life of the battery, please switch off the thermometer after use by pressing the button ②, otherwise the thermometer will switch off automatically after 10 minutes. When the thermometer is turned off, you will hear a short beep sound.
- For re-measurement, please wait for 1 minute, then turn on the thermometer again.

⚠ Don't take the thermometer out from your body before you hear "bibibibi-bibibibi" sound, otherwise the LCD will display " - - - C" with "bi-bi-bi-bi" sound and won't show any reading results to warn unfinished or incorrect measurement. At this time, please turn the thermometer off and then turn it on again for new measurement.



⚠ While body temperature reaches 37.8°C, the fever alarm of short "bi-bi-bi" sound will come out.

⚠ If the thermometer is not taken out from the measured place, such as mouth or underarm, after beep sound, the indicated temperature will fluctuate minimally.

⚠ If the ambient temperature is higher than 32°C, the LCD will start to display digits after power on.

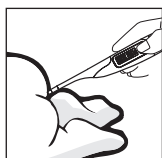
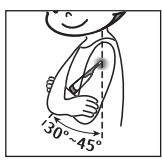
RELIABLE METHOD TO MEASURE TEMPERATURE

Body temperatures in the morning (lower) will be different from those in the afternoon (higher). So, please measure your body temperature in the same place and at the same time of day.

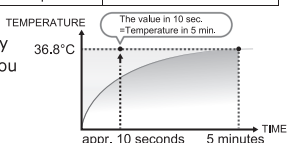


ORAL METHOD
√ = correct areas
x = incorrect areas

Figure 1

Method	Measuring Time	Normal Temperature Range	Remark	Gesture Advice
ORAL	10 seconds approx.	35.5°C ~ 37.5°C or 95.9°F ~ 99.5°F	Place the sensor under tongue. Sensor tip should touch the root of tongue, as far end as possible (see Figure 1). Hold the thermometer in the same spot with your mouth closed. Do not shift the thermometer during measurement.	
RECTAL	10 seconds approx.	36.6°C ~ 38.0°C or 97.9°F ~ 100.4°F	This is the most reliable measurement method. Lubricate the probe with non-irritating skin-friendly gel for easier insertion. Do not use petroleum jelly. Gently slide the probe about 1 cm (less than 1/2 inch) into the rectum. If you detect resistance of any kind, STOP.	
AXILLARY (UNDERARM)	10 ~ 20 seconds approx.	34.7°C ~ 37.3°C or 94.5°F ~ 99.1°F	Although simpler, the axillary (underarm) method is less accurate and takes longer time. Before measurement, make sure the armpit is dry. Place the thermometer into the person's armpit with sensor tip pointing upward. Firmly fold the arm to hold the thermometer in place.	

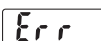
- ⚠ If you potentially get a fever and intend to measure your temperature with oral or axillary (underarm) method, please make sure that you follow instructions in the section of 「⚠ PRECAUTIONS FOR USE」.



°C/°F SWITCH

To switch between °C and °F, press and keep pressing the button ② for 5 seconds when power off, then the LCD window will show the default unit. Press the button ② again to switch the unit. Repeat to switch back to original setting.

ERROR INDICATIONS

Error signals	Problems & Solutions
	P: If the temperature is more than 43°C/109.4°F, the LCD displays "Hi". S: Recheck the measured object before measuring.
	P: If the temperature is below 32°C/89.6°F, the LCD will keep displaying "Lo". S: This is not an error indication. Please start the measurement directly.
	P: Informing battery replacement time. S: Replace the battery.
	P: If you take the thermometer out from measured place before beep sound or don't measure your temperature with correct gesture, "---" will come out with notified beep sound. S: Turn the thermometer off, and then turn it on again for measurement.
	P: If the thermometer has some problems and can't measure temperatures, the LCD will display "Err". S: Send the thermometer back to your retailer or the store you bought.

EXPLANATION OF LOT NUMBER

The date of manufacture is included in the **LOT**. The **LOT** has 6 numbers. The first and second number mean the year(00-99). The third number means the month (Jan.-Sep.: 1-9, Oct.:A, Nov.:B, Dec.: C). The fourth and fifth numbers mean the date (1-31). And the last number means the batch of the month.

Example: **LOT** 215051
 ↑ ↑
 year date
 month batch of the month

CLEANING AND MAINTENANCE

- When continuous re-measurements are required, clean and disinfect the unit by medical alcohol(75%), then wipe it with clean and dry cloth (medical cotton) before each use.
- We recommend verifying the accuracy of the unit by an authorized laboratory ever 2 years.

DISPOSAL

- Please dispose of the product and the battery separately.
- The product and the battery should not be disposed of with household waste.
- Please follow local waste / battery disposal regulations.

LIMITED WARRANTY

This thermometer is guaranteed for 2 years from the date of purchase against Manufacturer's defect under normal use. If your unit does not function properly due to defective parts or assembly, we will repair it free of charge. All parts are covered by this warranty except the battery and damage to the unit due to improper handling.

APPLYING STANDARDS

- MDD 93/42/EEC
- EN60601-1
- EN60601-1-2
- EN 80601-2-56
- ASTM E1112

SYMBOL & EXPLANATION

	Labelling in accordance with Medical Devices Directive 93/42/EEC.		Manufacturer
	Warning		Authorized representative in the European Community.
	Consult instruction for use.		Please do not dispose of the product in the household waste at the end of its useful life.
	Batch code (reference label on the device)		Dispose of empty batteries at appropriate collection sites according to national or local regulations.
	Storage / transport temperature		Protected against solid foreign objects of 12.5 mm diameter and greater. Protected against ingress of water in harmful quantity when the device is immersed in water up to 1 meter 3 ft 3 in depth.
	Type BF applied part		