

DIGITAL THERMOMETER

INSTRUCTIONS FOR USE

Please read carefully before using

KD-1780-1



DEVICE DESCRIPTION AND INTENDED USE

This digital thermometer is intended to measure human body temperature for children and adults; it has digital display and be used in household environment.

CONTRAINDICATIONS

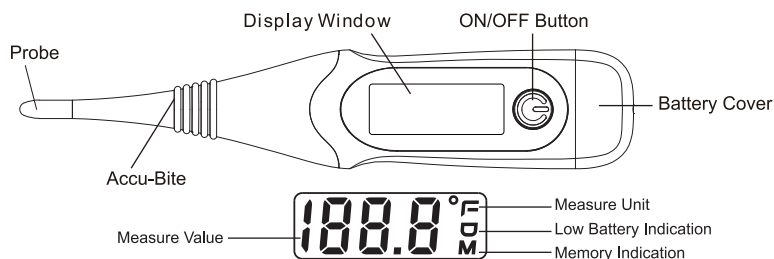
The digital thermometer is contraindicated:

1. Place the thermometer probe in scarred tissue or tissue compromised by skin disorders
2. Place the thermometer probe on skin exposed to direct sunlight, fireplace heat, cold compress therapies, air conditioner flow, etc.
3. Patients in trauma or treat with certain drug therapies
4. Patients in oral disorder.

FEATURES

1. Easy to read digital LCD (liquid crystal display).
2. Quick measurement, the minimum measuring time of oral and rectal is around 10 seconds.
3. Compact, accurate and durable LSI (large scale integration) device.
4. Very sensitive to obtain temperature.
5. If the thermometer is inadvertently left on after temperature stabilization, it will automatically shut off in 3 minutes.
6. Small light weight unit.
7. When low battery indicator shows, replace old battery with new battery.

PARTS DESCRIPTION



SPECIFICATIONS

Measurement Range	90.0~109.9°F
Resolution	0.1°F
Accuracy	<96.4°F or >106.0°F : ±0.5°F <35.8°C or >41.0°C : ±0.3°C 96.4~98.0°F or 102.0~106.0°F : ±0.3°F 35.8~37.0°C or 39.0~41.0°C : ±0.2°C 98.0~102.0°F : ±0.2°F 37.0~39.0°C : ±0.1°C
Memory	last memory
Battery(include)	LR41 Battery x 1pcs
Dimension	137.3mm x 26.6mm x 13.6mm
Battery Life	More than 5000 measurements
Weight	Approx. 18g included battery
Operating Conditions	60.8~104.0°F, R.H. of 15~95% non-condensing
Storage Conditions	-4~120°F, R.H. of 15~95% non-condensing
Guarantee of Quality	Certification ISO 13485 Comply with ASTM-E1112

EXPLANATION OF SYMBOLS

	Auto detection error.
	Temperature is higher than the measuring range.
	Temperature is lower than the measuring range.
	Memory Indication
	Low battery indication. When this shows, the device won't do measurement anymore.
	Operating instructions
	Manufacturer
	Keep dry
	Warning and Caution
	YYMM: Lot Number composed by year(Y) and month(M) of manufacture
	"ON" / "OFF" (push-push) NOTE Each position, "ON" or "OFF", is a stable position.

PRECAUTION

1. Do not boil the probe. Instead, clean the unit by wiping it with a dry cloth and disinfect the probe with isopropyl (rubbing) alcohol. See cleaning instructions for details.
2. Do not drop the thermometer or expose it to heavy shock.
3. Do not bite or swallow the probe and the battery cover.
4. Do not let thermometer come into contact with any thinner or chemical solvents.
5. After using, clean the thermometer and place it into the carrier case.
6. Do not store the unit under direct sunlight, at a high temperature, in high humidity or dust. Performance may be degraded.
7. Stop using the thermometer if it operates erratically or if the display malfunctions.
8. Keep out of reach of unsupervised children. Do not let children play with the unit. TEMPERATURE SHOULD BE TAKEN UNDER ADULT SUPERVISION.
9. Components may be harmful if swallowed. Contact a physician immediately should this occur.
10. Clean the thermometer probe before storing.
11. Do not attempt to disassemble the unit except to replace the battery.
12. Do not use if the display malfunctions or it operates irregularly.
13. Do not put this unit in dishwasher.
14. If the thermometer has been stored at below-freezing temperatures, allow the thermometer to warm naturally to room temperature before using.
15. Performance of the thermometer may be degraded if: Operated or stored outside stated temperature and humidity ranges or if the patient's temperature is below the ambient (room) temperature.
16. Before using, it is recommended to no drinking, smoking or excising for at least twenty minutes prior to do a measurement and no talk, walk during measuring, it may cause inaccurate reading.
17. Only use the thermometer indoors and do not use it near mobile phones or microwave ovens. In the case of thermometer whose maximum power exceeds 2 W, the minimum distance from thermometer should be 3.3 meters.
18. When the battery is almost exhausted, the symbol "" will appear in the display window, meaning it's time to replace the battery.
19. ORAL TEMPERATURE READINGS ARE OFTEN 1.0°F LOWER THAN ACTUAL BODY TEMPERATURE READINGS.
20. The reading is for reference, if feel sick or uncomfortable, please contact the physician.
21. Performance of the device may be degraded if operated or stored outside stated temperature and humidity ranges.

BATTERY REPLACEMENT

1. When the symbol "" appears, the battery needs to be replaced.
2. Pull the battery cover off in the direction shown
3. Use a pointed object such as a toothpick or insulated probe to pry loose the old battery. Avoid using any sharp metal object in this operation.
4. Place a new 1.5V button size battery, LR41 or equivalent in the chamber with the positive(+) side up and the negative(-) side down.
5. Replace and fasten the battery cover securely.



Warning :

1. Discard old battery carefully, out of reach of young children. Swallowing the battery may be fatal. If the battery is swallowed, contact a hospital immediately to have it removed. Do not dispose of the battery in a fire. It may explode.
2. For battery disposition, please consider the national regulation.

HOW TO USE

1. Disinfect the probe with isopropyl (rubbing) alcohol before using.
2. Press and release the ON/OFF button, the display read confirming that the unit is functioning properly.
3. Then the display will show L°F with °F flashing. If the room temperature is greater than 90.0°F, it will display rather than L°F.
4. Place the probe in the appropriate position.
5. Once the degree sign °F stops flashing, the measurement is finished and the temperature is displayed. An alarm signal will also sound for approximately 8 seconds after °F stops flashing.
6. The unit will automatically turn off in 3 minutes (approx.). However, to prolong battery life, it is best to press the ON/OFF button to turn off once the temperature has been indicated.

Special Features

Last-Temperature Memory Recall: When the ON/OFF button is depressed to activate the thermometer, hold down for approximately 5 seconds. The display of 188.8 will change to show the last reading. This reading is displayed as long as the button is held down. When the button is released, the thermometer will be in "ready-to-measure" mode and the recalled temperature will be erased.

For Models with Fever alarm: If the temperature registers higher than 99.5°F, the fever alarm (a quick beeping sound which occurs continuously for about 8 seconds) will sound when the peak temperature has registered. Also, the result will keep flashing until the thermometer is turned off.

For Switchable Centigrade and Fahrenheit Models: After turning on the thermometer, the Centigrade or Fahrenheit mode can be switched within the first 3 seconds by pressing and holding the ON/OFF button for 2 seconds.

NOTE: Always disinfect the thermometer before using.

NOTE: Drinking or eating prior to use may affect reading; oral measurement should be taken 30 minutes after drinking or eating.

NOTE: In step 4, you may put a sanitary plastic probe cover on the sensor tip to help to prevent cross-infection and contamination. Use of the probe cover may result in a 0.2°F difference from actual temperature. Dispose of any used probe cover and store the unit in a safe place.

NOTE: Temperature readings vary from person to person and time to time; find your normal temperature and watch for changes. If you compare readings between two thermometers, it is possible to have different readings even both of them are within accuracy requirement.

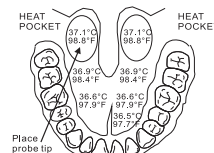
RELIABLE METHOD TO MEASURE TEMPERATURE

THE TAKING OF BODY TEMPERATURES: Change in body temperature is one of the most important indicators of illness. It is important that accurate temperatures be taken. Even though the device is used in similar manner to the glass thermometer, it is important that the simple instruction for use of this device be followed closely and that the person taking the temperature understands body temperature.

BODY TEMPERATURE: A person's body temperature will usually be several tenths to one full degree lower in the morning than it is in the late afternoon. Therefore, if your temperature is 97.9°F in the morning, it could be 98.4°F or more in the late afternoon and still be normal. To determine what your normal body temperature is you should take your temperature both in the early morning and in the late afternoon over several days. Children have the same normal temperature range as do adults. A fever for both children and adults is typically defined as a temperature over 99.5°F. Exercise, excessive clothing, hot bath, hot weather, warm food and drink can cause mild elevations of up to 100.4°F to 101.1°F. If you suspect one of these to be the cause of an elevated reading, eliminate the possible cause and retake the temperature in a half hour.

ORAL USE

Place the probe well under the patient's tongue. Instruct the patient to keep their mouth closed while the thermometer is reading. A normal temperature by this method is usually considered between 98.6°F to 99.5°F.



RECTAL USE

If the rectal temperature is recommended by your doctor, you may use a probe cover. Insert the thermometer into the probe cover. Lubricate the probe cover with a water soluble jelly for easier insertion, do not use petroleum jelly, it may cause inaccuracy reading. Insert the tip of probe no more than 1/2 inch into rectum. STOP if you meet any resistance. The sensing unit is on the very tip of the probe and there is no need to insert the probe deep into the rectum. In general, the rectal temperature is around 1.0°F to 2.0°F higher than oral temperature.

AXILLARY USE

Wipe armpit with a dry towel. Place the probe in the patient's armpit and keep the patient's arm pressed firmly against the body. In general, the axillary temperature is around 1.0°F to 2.0°F lower than oral temperature. Note that in order to achieve better axillary temperature measurement results, **a minimum measuring time of 2~3 minutes is recommended regardless of the beep sound.**

NOTE : Children should be attended by an adult during the entire measuring. After use, the digital thermometer should be stored in a safe place, out of reach of young children. If you compare temperatures between two thermometers, it is possible to have two different readings even if both thermometers are within their accuracy tolerance. Difference in how you take each reading and the thermometer's tolerance range can account for nearly 0.2°F variability.

TROUBLE SHOOTING

	Auto detection is error. Please return to the distributor.
	Please redo measurements.
	Please redo measurements.
	The device detects low battery, please change the battery. If the device is not functioning, first check the battery. Replace if necessary.

CLEAN & DISINFECTION INSTRUCTION

Do not use corrosive detergent to clean the unit. Clean and disinfect the thermometer before and after use.

Cleaning process:

1. Pre-cleaning with cold water wash several times.
2. Clean the probe with a solution of 5-10% mild detergent about 10~15 seconds.
3. Continuously clean with cold water to avoid any chemical residues remaining on the device.
4. Rinse the device with drinking water or distilled water to ensure the removal of all remnants of the cleansing agent.
5. If necessary, repeat step 2 through step 4 in order to make sure the device is clean.
6. A final wipe down by a clean wipe is necessary to avoid water stains.

Disinfection process:

1. To disinfect the device when completed the cleaning process.
2. Wiping the probe with a cloth dipped in a disinfectant solution such as 70-75% isopropyl (rubbing) alcohol solution : contact time \geq 10 min for disinfection.
3. The disinfectant free rinse without residues.

Drying process:

1. After cleaning and disinfection process above.
2. Put the device to air-dry in the room temperature (68-86°F), exposure time around 30~60 min.

CARE & STORAGE

1. Do not drop or crush the device. It is not shock proof.
2. Do not dismantle or modify the device other than changing the batteries.
3. Do not store the device in an extreme environment with direct sunlight, high/low temperatures or in a location with high humidity or severe dust.

Please contact your local agents or distributors if the device does not function properly as specified under **PRODUCT SPECIFICATION**.

LIMITED WARRANTY

This device is guaranteed for one year from the date of purchase against manufacturer's defect under normal, household use. The battery is not covered under the warranty. Follow the directions closely will ensure years of dependable operation.

If the device does not function properly, please contact the distributor.

LOT NUMBER INFORMATION

LOT NO. (YYMM) on the device label means the manufacture year and the manufacture month. For example, "1712" means the unit was manufactured in December, 2017.

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