

Dr. Morepen®

DIGI Flexi™

DIGITAL THERMOMETER

OWNER'S
MANUAL

MODEL NO. : MT-222

Warning :

- ⚠ Read 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 ear. Designed use is for oral, rectal, and armpit (axilla) readings only.
- ⚠ Do not place thermometer battery near extreme heat as it may explode.
- ⚠ Note: Use of the probe cover may result in a 0.2°F (0.1°C) discrepancy from actual temperature.
- ⚠ Remove battery from the device when not in operation for a long time.
- ⚠ The use of temperature readings for self-diagnosis is dangerous. Consult your doctor for the interpretation of results. Self-diagnosis may lead to the worsening of existing disease conditions.
- ⚠ Do not attempt measurements when the thermometer is wet as inaccurate readings may result.
- ⚠ Do not bite the thermometer. Doing so may lead to breakage and/or injury.
- ⚠ Do not attempt to disassemble or repair the thermometer. Doing so may result in inaccurate readings.
- ⚠ After each use, disinfect the thermometer especially in case the device is used by more than one person.
- ⚠ Do not force the thermometer into the rectum. Stop insertion and abort the measurement when pain is present. 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, please do not use the devices orally.
- ⚠ If the unit has been stored at temperatures over 41°F ~ 104°F (5°C ~ 40°C), leave it in 41°F ~ 104°F (5°C ~ 40°C) ambient temperature for about 15 minutes before using it.
- ⚠ Degraded sensors can degrade performance or cause other problems.
- ⚠ Keep thermometer away from lint, dust and light.

PLEASE READ CAREFULLY BEFORE USING

This digital thermometer provides a quick and highly accurate reading of an individual's body temperature. The digital thermometer is intended to measure the human body's temperature in regular mode orally, rectally or under the arm, and the device is reusable for clinical or home use on people of all ages. To better understand its functions and to provide years of dependable results, please read all instructions first.

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,

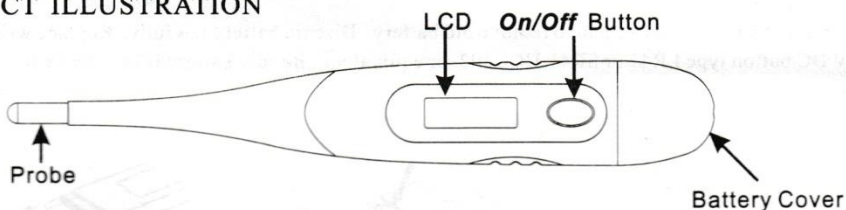
EN 60601-1-11 Medical electrical equipment — Part 1-11: General requirements for basic safety and essential performance – Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment and complies with the requirements of EN 60601-1-2(EMC), IEC/EN 60601-1(Safety) standards. And the manufacturer is ISO 13485 certified.

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PRODUCT ILLUSTRATION

Figure 1



PRECAUTION



- *The performance of the device may be degraded should one or more of the following occur:
 - 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).
 - 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.
- *Keep thermometer away from Magnetic Resonance equipment.


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)

SPECIFICATIONS

Type:	Digital Thermometer (Not Predictive)
Measure Range:	32.0°C – 42.9°C (90.0°F -109.9°F) (°C / °F chosen by manufacturer)
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
Measure time:	< 45 seconds
Expected service life:	Three years
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. 1500 times operation or 1 year with 1-2 measurement per day including standby mode.
Dimension:	13.1cm x 2.0cm x 1.2cm (L x W x H)
Weight:	Approx. 10 grams including battery
Ambient operating range:	Temperature: 5°C ~ 40°C (41°F ~ 104°F) Relative humidity: 15%~95%RH Atmospheric Pressure : 800hPa ~ 1060hPa
Storage and transportation condition:	Temperature: -20°C~55°C (-4°F ~ 131°F) Relative humidity: 15%~95%RH Atmospheric Pressure : 800hPa ~ 1060hPa
Ingress Protection Rating:	IP 27
Classification:	Type BF

TROUBLESHOOTING

Error message	Problem	Solution
Err	The system is not functioning properly	Unload the battery, wait for 1 mins and repower it. If the message reappears, contact the retailer for service.
Lo °C	Temperature taken is lower than 32°C(89.6°F)	Take a new temperature via close contact and sufficient rest.
Hi °C	Temperature taken is higher than 42.9°C(109.2°F)	Take a new temperature via close contact and sufficient rest.
	Dead battery: Battery icon is flashing, can't be measurable.	Suggest to replace the battery.

°C/°F SWITCHABLE

Temperature readings are available in the Fahrenheit or Celsius scale (°C/°F; located in the upper right corner of LCD.) With the unit off, press and hold the *On/Off* Button for approximately 2 seconds to change the current setting.

DIRECTIONS

1. Press the *On/Off* Button next to LCD display. A tone will sound as the screen shows **1888^{°E}**, followed by last recorded temperature. After showing the self-test temperature, the thermometer is now in the testing mode.

***Note:** If the measured temperature is less than 32°C or 90°F, the LCD will display Lo, if the measured temperature is higher than 42.9°C or 109.9°F, the LCD will display Hi.

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

a) **Oral Use:** Place thermometer under tongue as indicated by "✓" position shown in Figure 2. Close your mouth and breathe evenly through the nose to prevent the measurement from being influenced by inhaled/exhaled air. Normal temperature between 96.3°F and 99.1°F (35.7°C and 37.3°C)

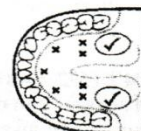


Figure 2

b) **Rectal Use:** Lubricate silver probe tip with petroleum jelly for easy insertion. Gently insert sensor approximately 1 cm (less than 1/2 ") into rectum. Normal temperature between 97.2°F and 99.9°F (36.2°C and 37.7°C).

c) **Armpit Use:** Wipe armpit dry. Place probe in armpit and keep arm pressed firmly at side. From a medical viewpoint, this method will always provide inaccurate readings, and should not be used if precise measurements are required. Normal temperature between 95.4°F and 98.1°F (35.2°C and 36.7°C).

3. The degree sign flashes throughout the testing process. When flashing stops an alarm will beep for approximately 10 seconds. The measured reading will appear on the LCD simultaneously. The minimum measurement time until the signaling tone (beep) must be maintained without exception. The measurement continues even after the buzzer notification. The displayed temperature will not change when thermometer is removed from its testing position.

***Note:** Normally the buzzes are "Bi-Bi-Bi-Bi-"; Alarm beeps more rapidly when temperature reaches 100.0°F (37.8°C) or higher, and the buzzes are "Bi-Bi-Bi----- Bi-Bi-Bi----- Bi-Bi-Bi"

4. To prolong battery life, press the *On/Off* Button to turn unit off after testing is complete. If no action is taken, the unit will automatically shut off after around 10 minutes.
5. Clean and disinfect the thermometer and then store the thermometer in its protective case.

BATTERY REPLACEMENT

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

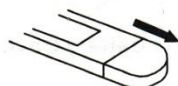


Figure 3



Figure 4



Figure 5

CLEANING AND DISINFECTION

- 1) Using a clean, soft cloth which has been moistened in clean distilled water wipe the thermometer down for 2-3 minutes to remove any residue.
 - 2) For disinfection, wipe down the thermometer with a solution of 70% ethanol alcohol for 2-3 minutes.
 - 3) Wipe again with a clean, soft cloth moistened in distilled water for 2-3 minutes to remove the alcohol solution.
 - 4) Either air dry or wipe dry with a clean, soft cloth.
- To prevent damage to the thermometer please note and observe the following:
- Do not use benzene, paint thinner, gasoline or other strong solvents to clean the thermometer.
 - Do not attempt to disinfect the sensing probe (tip) of the thermometer by immersing in alcohol or in hot water (water over 122°F (50°C)).
 - Do not use ultrasonic washing to clean the thermometer.

CALIBRATION

The thermometer is initially calibrated at the time of manufacture. If the thermometer is used according to the use instruction, periodic readjustment is not required. However, we recommend checking calibration every two years or whenever clinical accuracy of the thermometer is in question. Please send the complete device to the dealers or manufacturer.

Turn on the thermometer and insert into the water bath which the temperature is steady. ASTM laboratory accuracy requirements in the display range of 98.6 to 102.2 °F (37.0 to 39.0 °C) for electronic thermometers is $\pm 0.2^\circ\text{F}$ ($\pm 0.1^\circ\text{C}$).

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.

LIMITED WARRANTY

The thermometer is guaranteed for one year from the date of purchase. If the thermometer does not function properly due to defective components or poor workmanship, we will repair or replace it free of charge. All components are covered by this warranty excluding the battery. The warranty does not cover damages to your thermometer due to improper handling. To obtain warranty service, an original or copy of the sales receipt from the original retailer is required.



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

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Website : www.morepen.com



Before using this product, carefully read the manual.
Do not take any medical decision without consulting a doctor.
Always discuss your result with a Registered Medical Practitioner.