PREDICTIVE DIGITAL THERMOMETER

OWNER'S MANUAL

Model:DMT-4760b

Warning:

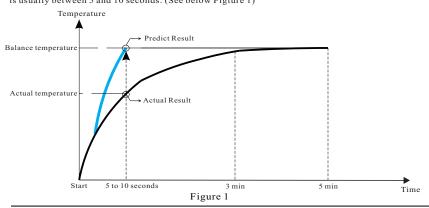
- Read instructions thoroughly before using digital thermometer
- \triangle Choking Hazard: Thermometer cap and battery may be fatal if swallowed. Do not allow children to use this device without parental supervision
- Do not use thermometer in ear. Designed use is for oral, rectal, and armpit (axilla) readings only.
- $^{\mathbb{N}}$ Do not place thermometer battery near extreme heat as it may explode \triangle Remove battery from the device when not in operation for a long time.
- \triangle 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.
- ${\ensuremath{\vartriangle}}$ Do not bite the thermometer. Doing so may lead to breakage and/or injury. $\triangle \ \ Do\ not\ attempt\ to\ disassemble\ or\ repair\ the\ thermometer.\ Doing\ so\ may\ result\ in\ inaccurate\ readings.$
- 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.
- \triangle 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 $41^{\circ}\text{F} \sim 104^{\circ}\text{F} (5^{\circ}\text{C} \sim 40^{\circ}\text{C})$, leave it in $41^{\circ}\text{F} \sim 104^{\circ}\text{F} (5^{\circ}\text{C} \sim 40^{\circ}\text{C})$ ambient temperature for about 15 minutes before using it.

Indications For Use The digital thermometers are intended to measure the human body temperature in regular mode orally, rectally or under the arm. And the devices are reusable for clinical or home use on people of all ages, including children under 8 years old with adult supervision.

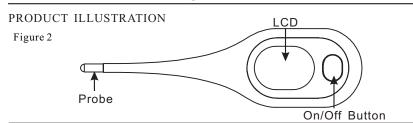
PLEASE READ CAREFULLY BEFORE USING

The predictive digital thermometer provides a quick and highly accurate reading of an individual's body temperature. Predictive-read thermometers are quicker than actual read therm Predictive read type thermometers display the temperature results in a short period of time which are equivalent to balance temperature after 5 minutes according to the particular algorithm. Therefore, users only need about 5 seconds to take the temperature readings. Due to measurement sites of predict thermometer are different, the reading time also may be different, but the actual time is usually between 5 and 10 seconds. (See below Figture 1)



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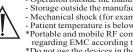


PRECAUTION

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*The performance of the device may be degraded should one or more of the following occur:
- Operation outside the manufacturer's s tated te mperature and humidity range.
- Storage outside the manufacturer's s tated te mperature 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.

*Do not use the devices in the MR environment.

SYMBOL EXPLANATION

===	Direct Current	LOT Batch Code		
沈	Type BF Applied Part	Manufacturer Manufacturer		
③	Consult Accompanying Documents	Storage and Transportation Temperature Limit: $-4^{\circ}F \sim 131^{\circ}F$ (-20°C \sim 55°C)		
IP 27	The first num.2:Protercted against access to hazardous parts with a finger, and the jointed tes finger of 12mm Φ, 80 , 80 mm length, shall have adequate clearance from hazardous parts And protected against solid foreign objects of 12,5 mm Φ and greater. The second number 7: Protected against water and the test is made by completely immersing the enclosure in w between 0.15m and 1m for about 30 minutes. The water temperature does not differ from that of the equipment by more than 5 K.			

SPECIFICATIONS

Type:	Digital Thermometer (Predictive)			
Measure Range:	89. 6°F-111.0°F (32.0°C -43.9°C)(°C /°F chosen by manufacturer)			
Accuracy:	± 0.2 °F (± 0.1 °C) during 95.9°F ~ 107.6°F (35.5°C ~ 42.0°C) at 64.4°F ~ 82.4°F (18°C ~ 28°C) ambient operating range ± 0.4 °F (± 0.2 °C) for other measuring and ambient operating range			
Operating mode:	Adjusted mode: Oral mode/Rectal mode/Underarm mode Direct mode: Bath mode			
Display:	Liquid crystal display, 3 1/2 digits			
Memory:	The last ten memories			
Battery:	One 3.0V DC button battery type CR2032			
Battery life:	Eight month with 3 measurements per day			
Dimension:	13.6cm×3.8cm×1.7cm(L x W x H)			
Weight:	Approx. 28 grams including battery			
Expected service life:	Three years			
Ambient operating range:	Temperature:41°F ~104°F (5°C ~40°C) Relative humidity: 15%~95%RH Atmospheric Pressure: 700hPa ~1060hPa			
Storage and transportation condition:	Temperature: -4°F ~131°F (-20°C~55°C) Relative humidity: 15%~95%RH Atmospheric Pressure: 700hPa~1060hPa			
Ingress Protection Rating:	IP 27			
Classification:	Type BF 🛣			

°C/°F SWITCHABLE

Temperature readings are available in the Celsius or Fahrenheit scale ($^{\circ}$ C/ $^{\circ}$ F; located in the upper right corner of LCD.) With the unit off, press and hold the On/Off Button for approximately 3 seconds to change the current setting.

MEMORY MODE

- 1. Power on the thermometer
- 2. During the last memory displays, press and hold the On/Off button until entering into
- 3. Press the button again to cycle check the last 10 memories.4. Long press the On/Off button for 3 seconds to quit the memory mode.

SELECT MODE

- 1. Power on the thermometer.
- 2. During the mode displays, press and hold the On/Off button until mode flashing.
- 3. Press the button again to cycle through the four mode options (see figure 3).4. When the desired mode displays on screen, wait for auto entering into measurement mode.

Figure 3



Bluetooth requirements

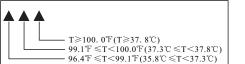
- The Glucose Meter requires a bluetooth device with:
 * Bluetooth 5.0.1 * Android 6.0 or later * IOS 10.0 or later.
 And works with: . iphone , iPod, iPad . Android Phones and Tablets.

and continue to be visible. APP will be synchronized with the thermometer.

3. When you see the LCD display " a 'flashing, it means that the thermometer is waiting for Bluetooth connection, you only have 60 seconds to use the APP to bind the thermometer device, After successful connection, the " will stop flashing

FEVERLINE INDICATING TECHNOLOGY

At the completion of each measurement, the triangular arrow on the display will indicate according to different temperature range. Triangular arrow explain:



Note: If temperature below 96.4°F (35.8°C), the triangular arrow will not display.



bb h

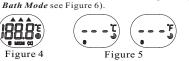
bath mode

DIRECTIONS

a) Oral Mode: Place therm

1. Please download and install "JoyHealth" APP from Website or APP Store (Such as Apple Store), before using this product. Then use your email account to register a new account and log in. Selecti "thermometer" device, And turn on your phone's Bluetooth.

2. Press the On/Off Button next to LCD display. A tone will sound as the screen shows (See Figure 4), followed by last recorded temperature. After showing the mode of measurement (See Figure 3), the thermometer will enter into the testing mode (Oral/Underarm/Rectal mode see Figure 5 or



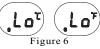


Figure 7

through the nose to prevent the measurement from being influenced by inhaled/exhaled air.

Oral Mode: Place thermometer under tongue as indicated by " / position shown in Figure 7. Close your mouth and breathe evenly b) Rectal Mode: Lubricate silver probe tip with petroleum jelly for easy insertion. Gently inser

sensor approximately 1cm (less than 1/2 ") into rectum.

- c) Underarm Mode: 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.

 d) Bath Mode: It will display Lo and then °C or °F is still flashing (See Figure 6), then place

meter in desired location (mouth, rectum, or armpit.)

- probe tip into bath water. Note: The accuracy of unit must be tested using water bath in bath mode.
- The three dashes (---) will flash sequentially throughout the testing process, and at the same time the " are flashing (See Figure 8). When flashing stops an alarm will beep for approximately 10 seconds. The predictive measured reading will appear on the LCD simultaneously (For example 98.6°F see Figure 9). The measurement time of the *oral/underarm/rectal mode* varies with the individual, which are between 5 and 10 seconds.
- *Note: The minimum measurement time of *Bath Mode* until the signaling tone (beep) must be maintained without exception







The thermometer will enter into the Actual Measurement after 3 minutes except Bath Mode, At the same time you can hear two beeps as a cue (The " " will disappear and the Actual measurement temperature display see Figure 10), users can take the true body temperature at this time. Users can compare the predictive temperature result with true temperature result. In order to achieve better body temperature measurement result, recommend to keep the probe in mouth and rectum about 2 minutes, or in armpit about 5 minutes regardless of the beep sound and at least 30 seconds measurement

6. 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 Store the thermometer in its protective case

*Note: Normally the buzzes are "Bi-Bi-Bi-Bi-"; Alarm beeps more rapidly when temperature

Error message	Problem	Unload the battery, wait for 1 minute and repower it. If the message reappears, contact the retailer for service. Do not move, and then repeat measurement. • The ambient temperature may be too low, please measure at high temperature. • Person may be just drank cold drinks, repeat measurement wait for 15 mins. • The thermometer is moved when measuring, Do not move, and then repeat measurement. Unload the battery, wait for 1 minute and repower it. If the message reappears, contact the retailer for service.		
	Temperature taken is lower than 89.6°F(32.0°C)			
Η,	Temperature taken is higher than 111.0°F(43.9°C)			
Err	The system is not functioning properly.			
Er I	The thermometer is moved when measuring.			
Er 2	The time of predictive measurement is excess 15 seconds.			
Other Err messages	The thermometer is not functioning properly.			
Ø	Dead battery: Battery icon is flashing, can't be measurable.			

BATTERY REPLACEMENT

- 1. Replace battery when " appears in the lower right corner of LCD display.
- 2. Put a thin board such as a coin on fillister of cover. Turn the battery anti-clockwise until the cover is off
- 3. Use a non-meteal instrument such as a pen to remove old battery from the battery holder (See Figure 12). Discard battery according to local law.
- 4. Place a new 3.0V DC CR2032 into the chamber with positive side facing up(See Figure 13). 5. With a thin pin to turn the cover clockwise until the "op" facing towards " (See Figure 14)









CLEANING AND DISINFECTION

- 1) Immerse the thermometer probe in distilled water for at least 1 minute:
- 2)Using a clean, soft cloth to wipe the thermometer down to remove any residue: 3) Repeat step 1 and 2 for three times until no soil is seen with visual inspection after cleaning;
- 4)For thoroughly clean and disinfection, please use method A or B: Method A(High level disinfection): immerse the thermometer probe in 0.55% OPA(O-Phthaldehyde),
- such as CIDEX OPA, for at least 12 minutes under temperature at 68°F; Method B(Low level disinfection): Using a clean soft cloth dipped in 70% medical alcohol, wipe the probe
- 3 times, at least one minute for each time 5) Repeat step 1 to 3 to remove OPA residuals;
- Note1: Rectal use is not recommended for home use as OPA will not be readily available outside of a hospital. If rectal measurement is necessary, we strongly recommend high level disinfection.
- Note2: Please operate according to the manual of OPA for reference. To prevent damage to the thermometer please note and observe the fo
- -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, OPA or in hot water (water over 122°F (50°C) for long time.
- -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. Turn on the thermometer and insert into the water bath and then check the laboratory accuracy. Please send the complete device to the $dealers\ or\ manufacturer.\ ASTM\ laboratory\ accuracy\ requirements\ in\ the\ display\ range\ of\ 98.6\ to\ 102.2\ ^\circ F$ (37.0 to 39.0 °C) for electronic thermometers is $\pm 0.2 \text{°F} (\pm 0.1 \text{°C})$.

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.

FCC INFORMATION

Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device.

pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
 Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help.
- $The \ device \ has \ been \ evaluated \ to \ meet \ general \ RF \ exposure \ requirement. The \ device \ can \ be \ used \ in \ portable$ exposure condition without restriction.

LIMITED WARRANTY

Made in China

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 forthe disposal of electronic products.

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used directly adjacent to or between other electrical equipment.

Table 1

Guidance and manufacturer's declaration – electromagnetic emission

The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment – guidance			
RF emissions	Group 1	The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and			
CISPR 11	Group 1	are not likely to cause any interference in nearby electronic equipment.			
RF emissions		The device is suitable for use in all			
CISPR 11	Class B	establishments, including domestic establishments and those directly connected to the public low-voltage power			
Harmonic emissions		supply network that supplies buildings used for domestic			
	Not applicable	purposes.			
IEC 61000-3-2					
Voltage fluctuations / flicker emissions	Not applicable				
IEC 61000-3-3					

Table 2

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Guidance and manufacturer's declaration – electromagnetic immunity

The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance	
Electrostatic discharge (ESD)	± 8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV	± 8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidit	
IEC 61000-4-2	air	air	should be at least 30 %.	
Electrostatic transient / burst IEC 61000-4-4	± 2 kV for power supply lines 100 kHz repetition frequency ± 1 kV for input/output lines	N/A	N/A	
Surge IEC 61000-4-5	± 0.5 kV, ± 1 kV differential mode line-line	N/A	N/A	
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % UT (100 % dip in UT) for 0.5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315° 0 % UT (100 % dip in UT) for 1 cycle at 0° 70 % UT (30 % dip in UT) for 25/30 cycles at 0° 0 % UT (100 % dip in UT) for 250/300 cycle at 0°	N/A	N/A	
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m, 50/60Hz	30 A/m, 50/60Hz	Power frequency magnetic fields should at levels characteristic of a typical locat in a typical commercial or hospi environment.	

Table 3

Guidance and manufacturer's declaration – electromagnetic immunity

The device is intended for use in the electromagnetic environment specified below. The customer or the user of the

device should assure that it is used in such an environment.						
Immunity test	IEC 60601 test	Compliance	Electromagnetic environment - guidance			
	level	level				
Conducted RF	3 Vrms	N/A	Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from			
Con aucica Id	150 kHz to 80 MHz	11/21	the equation applicable to the frequency of the			
IEC 61000-4-6	6 Vrms 150 kHz to		transmitter.			
	80 MHz outside		Recommended separation distance			
	ISM bandsa		$d = \left[\frac{3.5}{V_1}\right] \sqrt{P}$			
Radiated RF		10 V/m	$d = \left[\frac{3.5}{E_1} \right] \sqrt{P} \text{80MHz to 800MHz}$			
radiated 10	10 V/m	10 1/111	$a = \left \frac{1}{E_1} \right \sqrt{P}$ 80MHz to 800MHz			
IEC 61000-4-3			[— ₁]			
	80 MHz to 2.7 GHz					
			$d = \left[\frac{7}{E_1}\right] \sqrt{P} 800 \text{MHz to } 2.7 \text{GHz}$			
			where P is the maximum output power rating of			
			the transmitter in watts (W) according to the transmitter manufacturer and d is the			
			recommended separation distance in metres(m).			
			Field strengths from fixed RF transmitters, as			
			determined by an electromagnetic site survey, ^a should be less than the compliance level in each			
			frequency range b			
			Interference may occur in the vicinity of			
			equipment marked with the following symbol:			
			equipment marked with the following symbol.			
			(m)			

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

a The ISM (industrial, scientific and medical) bands between 0,15 MHz and 80 MHz are 6,765 MHz to 6,795 MHz; 13,553 MHz to 13,567 MHz; 26,957 MHz to 27,283 MHz; and 40,66 MHz to 40,70 MHz. The

6,795 MHz; 13,553 MHz to 13,567 MHz; 26,957 MHz to 27,283 MHz; and 40,66 MHz to 40,70 MHz. The amateur radio bands between 0,15 MHz and 80 MHz are 1,8 MHz to 2,0 MHz, 3,5 MHz to 4,0 MHz, 5,3 MHz

to 5,4 MHz, 7 MHz to 7,3 MHz, 10,1 MHz to 10,15 MHz, 14 MHz to 14,2 MHz, 18,07 MHz to 18,17 MHz, 21,0 MHz to 21,4 MHz, 24,89 MHz to 24,99 MHz, 28,0 MHz to 29,7 MHz and 50,0 MHz to 54,0 MHz.

b The compliance levels in the ISM frequency bands between 150 kHz and 80 MHz and in the frequency range 80 MHz to 2,7 GHz are intended to decrease the likelihood that mobile/portable communications equipment could cause interference if it is inadvertently brought into patient areas. For this reason, an additional factor of 10/3 has been incorporated into the formulae used in calculating the recommended separation distance for transmitters in these frequency ranges.

e Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.

d Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Table 4

Recommended separation distances between

portable and mobile RF communications equipment and the device

The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the device as recommended below, according to the maximum output power of the communications

equipment	Separation distance according to frequency of transmitter m			
Rated maximum output of transmitter	$150 \text{ kHz to } 80 \text{ MHz}$ $d = \left[\frac{3.5}{V_1}\right] \sqrt{P}$	80 MHz to 800 MHz $d = \left[\frac{3.5}{E_1}\right]\sqrt{P}$	800 MHz to 2.7 GHz $d = \left[\frac{7}{E_1}\right]\sqrt{P}$	
W				
0.01	0.12	0.04	0.07	
0.1	0.37	0.12	0.23	
1	1.17	0.35	0.7	
10	3.7	1.11	2.22	
100	11.7	3.5	7.0	

For transmitters rated at a maximum output power not listed above the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Recommended separation distances between RF wireless communications equipment

The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between RF wireless communications equipment and the device as recommended below, according to the maximum output power of the communications equipment.

Frequency MHz	Maximum Power W	Distance	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
385	1.8	0.3	27	27	RF wireless communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
450	2	0.3	28	28	
710 745	0.2	0.3	9	9	
780					Recommended separation distance
810					$E = \frac{6}{d} \sqrt{P}$
870	2	0.3	28	28	Where P is the maximum output power rating of the ransmitter in watts (W) according to the transmitter
930					
1720					manufacturer and d is the recommended separation
1845	2	0.3	28	28	distance in meters (m). Field strengths from fixed RF transmitter, as determined by an electromagnetic site survey, should be less than the compliance level in each
1970					
2450	2	0.3	28	28	
5240					frequency range. Interference may occur in the vicinity of
5500	0.2	0.3	9	9	equipment marked with the following symbol:
5785					

Note 1: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption an reflection from structures, objects and people.

WARNINGS!

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• This device should not be used in the vicinity or on the top of other electronic equipment such as cell phone, transceiver or radio control products. If you have to do so, the device should be observed to verify normal operation

observed to verify normal operation.

• The use of accessories and power cord other than those specified, with the exception of cables sold by the manufacturer of the equipment or system as replacement parts for internal components, may result in increased emissions or decreased immunity of the equipment or system.