pigeon 80087 Digital Thermometer with Soft Tip Instruction Manual

Contents

1 pigeon 80087 Digital Thermometer with Soft Tip
2 Product Usage Instructions
3 SPECIFICATIONS
4 HOW TO USE
5 HOW TO REPLACE THE BATTERY
6 APPENDIX EMC
7 Documents / Resources
7.1 References
8 Related Posts

pigeon 80087 Digital Thermometer with Soft Tip

Specifications

- Operating mode: Direct Mode
- Power Consumption: 0.2mW
- Battery Life: Approx. 200 operating hours at the point of production (approx. 2 years if used 10 minutes per day)
- Transient response time: 40s

Product Usage Instructions

Turning on the Thermometer

1. Press the on-off button to turn on the thermometer. The window will display and a beep sound will be heard, indicating that the unit is in working condition.
   Taking Temperature
2. Release the on-off button to view the last measured temperature briefly. The display will then flash, indicating the thermometer is ready to take a temperature.
3. Temperature can be taken orally, underarm, or rectally.
   Follow the specific instructions for each method:
   - **Oral Use:** Place the sensor tip beneath the tongue until a beep sound is heard. Remove the thermometer to read the temperature on the display.
   - **Rectal Use:** Lubricate the tip with water-soluble jelly, gently insert it into the rectum, and hold until a beep sound is heard. Remove the thermometer to read the temperature on display.
     Temperature Reading and Power Off
4. When the peak temperature is reached, an alarm will sound.
   Press the on-off button to turn off the power. The thermometer will automatically power off after about 8 minutes

if left unused.

5. For immediate re-use, turn off the power first, then press the on-off button again to restart the measurement process.

CAUTION
The body temperature may vary due to various factors. It is recommended to take your temperature consistently over several days to establish your normal body temperature.

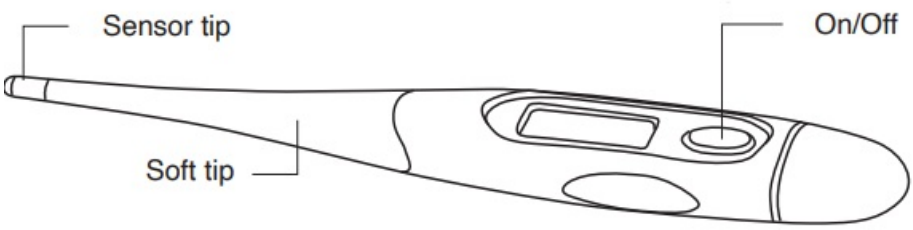
WARNING

1. Temperatures should be taken under adult supervision and kept away from children.
2. Avoid biting the sensor tip during oral temperature measurement.
3. Avoid bending, dissembling, pulling, or dropping the unit.
4. Avoid direct sunlight, high temperature, high humidity, dirt, and strong electrostatic or electromagnetic waves.

Frequently Asked Questions (FAQ)

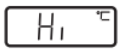
- **Q: How do I clean the thermometer?**
  A: Use a soft cloth with alcohol to clean the sensor tip after each use.
- **Q: Can I use the thermometer for both adults and children?**
  A: Yes, this thermometer can be used for individuals of all ages with appropriate precautions.

Digital Thermometer (with soft tip)



MODEL NO. 79559 (MT905) 80087

SPECIFICATIONS

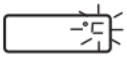
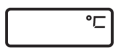
- Operating mode Power Consumption
- Direct Mode 0.2mW
- Battery Life Transient response time 40s
- Approx. 200 operating hours at the point of production (approx. 2 years if used 10 minutes per day)
- Display Unit 0.01oC/0.01°F
- Measuring Range
- 32.00oC – 42.99oC/90.00°F – 109.90°F
- (if less than 32.00oC/90.00°F,  displays)
- (if more than 42.99oC/109.90°F,  displays)

Accuracy

- ± 0.1oC/± 0.2°F between
- 35.0oC – 42.0oC/95.0°F-107.9°F
- at room temperature (22oC/71.6°F)
- ± 0.2oC/±0.4°F for other measuring and room temperature range.

HOW TO USE

How to change between Centigrade and Fahrenheit readings: Activate unit and hold down on/off button for more than 2 seconds.

1. Press the on-off button to turn on the thermometer. The window will display  and a beep sound will be heard. This indicates that the unit is in working condition.
2. Upon releasing the on-off button, the last measured temperature will be shown for about two seconds then  display will flash (If the room temperature is higher than 32oC, the actual room temperature will be displayed instead). The flashing  indicates that the thermometer is ready to take a temperature.
3. Temperature can be taken ORALLY, UNDERARM (AXILLARY) OR RECTALLY.
    - **ORAL USE**:
      Put the sensor tip beneath the tongue and close your mouth until a beep sound is heard (for about one minute). Remove the thermometer and read the temperature on the display.
    - **UNDERARM (AXILLARY) USE:**
      Wipe armpit with a dry towel. Place the sensor tip under the armpit, press down the lower arm and hold firmly. When temperature is stabilized, a beep sound will be heard. In axillary use, it is recommended to ignore the completion beeps and keep the thermometer in place for more than 5 minutes. Then remove the thermometer and read the temperature on the display. To avoid any influence from surrounding air, fold the arm over the chest, tightly covering the sensor under the arm.
    - **RECTAL USE:**
    - Lubricate the tip of the thermometer with a water-soluble jelly for easier insertion. Do not use petroleum jelly.
    - The patient should lay on his/her side, with knees slightly bent. If the patient is a baby, place the baby on his stomach with the legs hanging down in a 90o angle. This positions the baby's rectum properly for safe and easy insertion of the thermometer.
    - Gently insert the tip of the thermometer, NO MORE THAN 1.2CM (1/2inch), into the rectum. If you feel any resistance, STOP insertion.
    - Hold the thermometer in place until a beep sound is heard. Remove the thermometer and read the temperature on display.
    - Once used rectally, the thermometer should not be used orally for sanitary reasons.
4. When the peak temperature is reached or temperature stabilizes, the  symbol stops flashing and sounds an alarm Bi—Bi—Bi. If the detected temperature exceeds 37.8oC, it sounds a rapid Bi-Bi-Bi—Bi-Bi-Bi.
5. Press the on-off button to turn off the power. If you forget to turn off the thermometer, it will turn off the power automatically in about 8 minutes.
6. For immediate re-use, please press the on-off button to turn off the power first, then press the on-off button again to re-start the measurement process.

CAUTION

The body temperature will differ depending on the time of day, food you have eaten, recent exercise, the method used to take your temperature (orally, underarm or rectally), medication and environmental factors such as the external temperature. You are recommended to take your temperature in the same method over several days and become familiar with your normal body temperature.

WARNING

1. Temperatures should be taken under adult supervision and stored away from the reach of children.
2. Do not bite the sensor tip while taking oral temperatures. Simply place the tip under the tongue.
3. Do not bend on purpose, dissemble, pull or drop the unit.
4. Avoid exposing the thermometer to direct sunlight, high temperature, high humidity or dirt.
5. Keep away from strong electrostatic or electromagnetic waves (eg., near TV, microwave oven or cellular phone).
6. Stop using the thermometer if it is broken.
7. Do not disassemble or repair the unit except to replace the battery.
8. Remove the battery if the thermometer is not likely to be used for a year.
9. Follow cleaning instructions. Do not wash in any way other than instructed. Always keep the sensor tip clean.

HOW TO CLEAN

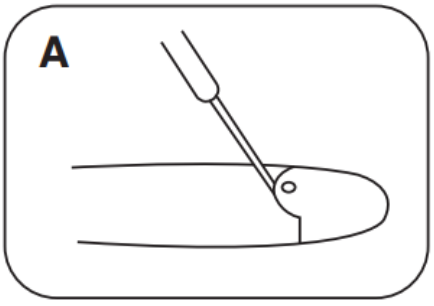
Wash the waterproof area extending about 5cm (2inch) from the tip of the thermometer with warm soap water or wipe the area with 70% isopropyl alcohol before and after each use. Dry thermometer thoroughly before storing in the case provided with the unit.

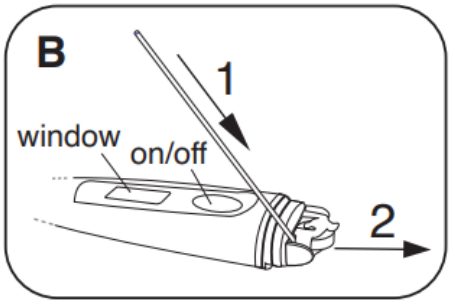
HOW TO REPLACE THE BATTERY

When the battery is almost exhausted, the sign  will be shown in the display window. Replace with a new battery before the current battery is completely exhausted.

1. Remove the battery cover by using a small “-” shape driver to push front lip of the cover upwards.(see diagram A).
2. Remove the battery.
3. Insert the new battery (see diagram B).

   NOTE: Ensure battery polarity is correctly placed. The battery should be inserted with the positive side(+) facing up.
4. Replace and fasten the cover firmly.





Battery
1.55VDC (LR41/SR41)

	Operating Condition	Storage and Transportation Condition
Temperature	:10°C ~ 40°C (50°F~104°F)	-20°C ~ 55°C (-4F~131F)
Relative Humidity	15% – 95% RH	15% – 95% RH
Atmospheric pressure	700hPa – 1060hPA	500hPa – 1060hPA

WARNING:

- Swallowing a button battery may be fatal.
- Do not attempt to recharge the battery.
- Do not dispose the battery in or near fire as it may explode.
- Exhausted batteries should never be disposed of in household waste but must be handed in at your local depot for chemical waste.

Item	Description
	Indicates incorrect handling that cause major injury
	Insulation type: BF equipment
	EU environmental protection directive
	Suggest to read the manual
	Manufacturer name and address

Acute Ideas Co. Ltd., 3F No.11, Lane 35, Jihu Road, Neihu District, Taipei 114, Taiwan

APPENDIX EMC

WARNINGS:

- The instrument conforms to the requirements of IEC60601-1-2, standards for electromagnetic compatibility.
- The user shall install and use the EMC information provided in the random file.
- Portable and mobile RF communication equipment may affect the performance of the instrument, avoid strong electromagnetic interference when using, such as close to the mobile phone, microwave oven, etc.
- The guidance and manufacturer’s declaration are detailed in the table below.
- The instrument should not be close to or stacked with other equipment. If it must to be close to or stacked, it should be observed and verified to be able to operate normally under its configuration.
- In addition to the cables sold by the instrument manufacturer as spare parts for internal components, the use of other accessories and cables may result in increased emission or reduced immunity.

TABLE 1

Guidance and manufacturer's declaration-electromagnetic emission		
The Digital Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the Digital Thermometer should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment-guidance
Conducted emissions CISPR 11	N/A	The Digital Thermometer uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electonic equip ment.
Radiated emissions CISPR 11	Group 1 Clas s B	
Harmonic emissions IEC61000-3-2	N/A	The Digital Thermometer suitable for use in all establishment s, including domestic establishments and those directly netw ork that supplies buildings used for domestic purposes.
Voltage fluctuations / flicker emi ssions IEC61000-3-3	N/A	

TABLE 2

Guidance and manufacturer's declaration-electromagnetic emission			
The Digital Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the Digital Thermometer should assure that it is used in such an environment.			
Immunity test	IEC60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharg e(ESD) IEC61000-4-2	• ±8 kV contact • ±2, 4, 8, 15 kV air	• ±8 kV contact • ±2, 4, 8, 15 • kV air	Floors should be wood, concrete or cer amic tile. If floors are covered with synt hetic material, the relative humidity sho uld be at least 30%
Electrical fast transie nt/ burst IEC61000-4-4	• ±2kV for power Supply lines • ±1 kV for Input • a.c. Power Ports	N/A	Mains power quality should be that of a typical commercial or hospital environment.
	±1 kV for Signal Input/o utput Ports		

Surge IEC 61000-4-5	• ±1kV line (s) to line(s) • ±2kV line(s) to earth	N/A	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips,	<5% UT		Mains power quality
short	(>95% dip in UT)		should be that of a typical
interruptions	for 0.5 cycle		commercial or hospital
and voltage	<40% UT		Environment .If the user of
variations on	(60% dip in UT)		Digital Thermometer
power supply input lines	for 5 cycles <70% UT	N/A	requires continued operation during power mains
IEC61000-4-11	(30% dip in UT)		interruptions, it is
	for 25 cycles		recommended that Digital
	<5% UT		Thermometer should be
	(>95% dip in UT)		powered from an
	for 5 s		uninterruptible power supply
			or a battery
Power frequency (50 Hz/60Hz) magnetic field IEC61000-4-8	30A/m	30A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE: UT is the a.c. mains voltage prior to application of the test level.			

Guidance and manufacturer's declaration – electromagnetic immunity			
The Digital Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of The Digital Thermometer should assure that it is used in such an electromagnetic environment.			
Immunity test	IEC60601 test level	Compliance level	Electromagnetic environment -guidance

Conducted RF IEC61000-4-6	0,15MHz–80MHz 3 V RMS outside the ISM band, 6 V RMS in the ISM and ama-teur radio bands	N/A	• Portable and mobile RF communications equipment should be used no closer to any part of The Digital Thermometer, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance d=1.2 P d=1.2 P 80MHz to 800 MHz d=2.3 P 800MHz to 2.5GHz • 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). b 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.
Radiated RF IEC61000-4-3	10V/m 80 MHz to 2.7 GHz	10V/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.

- Field strengths from fixed transmitters, such as base stations for radio (cellular / cordless) telephones and la nd mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretic ally with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, and electromagn etic site survey should be considered. If the measured field strength in the location in which The Digital Ther mometer is used exceeds the applicable RF compliance level above, The Digital Thermometer should be obs erved to verify normal operation.
- If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocati ng The Digital Thermometer.
- Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

Frequency Range and Level: RF wireless communication equipment			
Test Frequency (MHz)	Modulation	Minimum immunity Level (V/m)	immunity Level Applied (V/m)
385	**Pulse Modulation: 18 Hz	27	27
450	*FM + 5 Hz deviation: 1 kHz sine **Pulse Modulation: 18 Hz	28	28
710 745 780	**Pulse Modulation: 217 Hz	9	9
810 870 930	**Pulse Modulation: 18 Hz	28	28
1720 1845 1970	**Pulse Modulation: 217 Hz	28	28
2450	**Pulse Modulation: 217 Hz	28	28
5240 5500 5785	**Pulse Modulation: 217 Hz	9	9

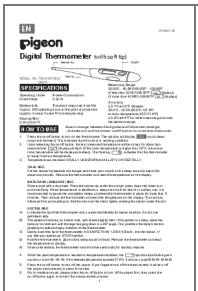
ATTENTION:

- If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1m. The 1m test distance is permitted by IEC 61000-4-3
- For some services, only the uplink frequencies are included
- The carrier shall be modulated using a 50 % duty cycle square wave signal.
- As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.

For transmitters rated at a maximum output power not listed above, the recommended separation distance in metres (m) can be determined 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.

Documents / Resources

	pigeon 80087 Digital Thermometer with Soft Tip [pdf] Instruction Manual 80087, 80087 Digital Thermometer with Soft Tip, Digital Thermometer with Soft Tip, Thermometer with Soft Tip, Soft Tip, Tip

References

- User Manual