

PURETECH

Baby

Digital Thermometer



USER MANUAL: PLEASE READ BEFORE FIRST USE

Model: IT-903

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Thank you for choosing the Puretech Baby 4-in-1 Thermometer. We hope that this product fulfils your every expectation. If you have any questions or concerns please feel free to contact us and we will be happy to assist.

Before you begin to use the thermometer it is important for you to set the time on the thermometer. This will activate the digital clock and also the room temperature reading. If you do not follow this step you will not benefit these additional features.

How to Set the Clock

Please follow the steps below to set the time on the thermometer.

Step 1 – Insert the battery into the thermometer by removing the battery cover located at the rear of the thermometer. (See diagram on next page)

Step 2 – Once inserted, The screen should turn on. Press the blue scan button on the front if the screen turns off. Now press the black function button which you will find under the battery until you see F-3 displayed on the screen. This is the function to set the time.

Step 3 - Use the scan button to set the time. This will set the minutes. Once you have set the minutes press the black function button again (located beneath the battery) and press the scan button at the front to set the hours. Please note that the clock is in a 24 hour format e.g. 4pm would equal 16:00hrs. Once complete please replace the battery cover. Your new thermometer is now ready to be used.

How the Thermometer Works

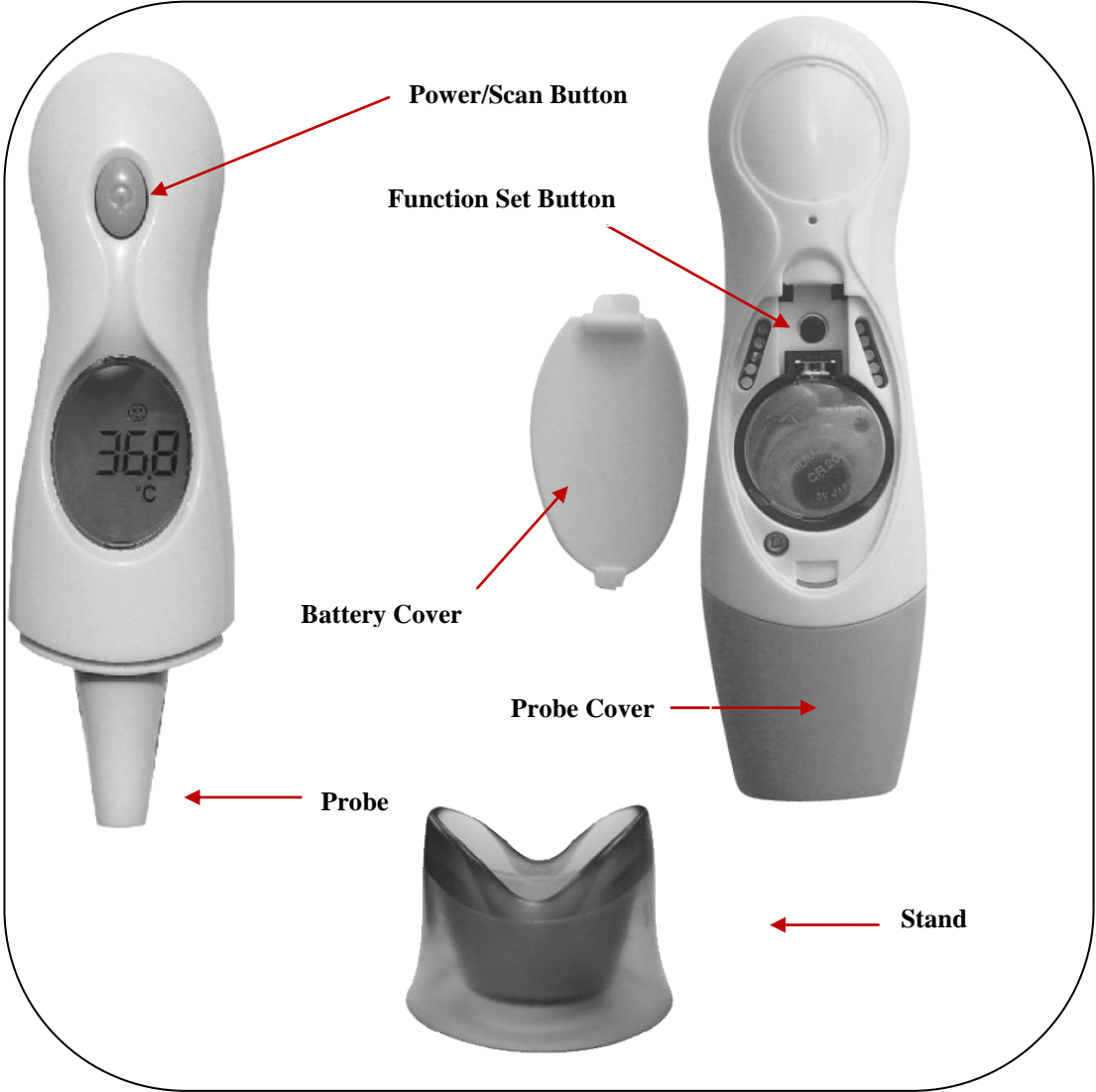
Any object with a temperature above absolute zero emits infrared radiation wavelength. The wavelength transmitted by the human body is 5~13 μm . According to this principle, it is possible to determine the temperature of the human body i.e. the forehead or inner ear through the use of an infrared thermometer. Please see the table below which gives you the average temperature of a person according to the reading method used.

Mesurement	Axillary	Forehead	Oral	Ear	Rectal
Average temperature (Fahrenheit)	96.9	97.7	98.8	98.6	99.1

Contents of the Box:

- 1 x Thermometer
- 1 x Stand
- 1 x CR2032 battery
- 1 x User's manual

Thermometer Components



How to Take a Temperature Reading

Forehead Temperature

Press the Scan button to turn the power on. Gently hold the thermometer against the forehead and move it across the forehead whilst holding down the scan button for 2-4 seconds. Release the Scan button. You should hear a beep and your reading is ready.

The thermometer is designed to give you an easy indication reading with color backlights which illuminates for 15 seconds after taking the reading:

Green	=	Temperature in the range of	89 – 99.3	(32 - 37.4°C)
Orange	=	Temperature in the range of	99.5- 100.4	(37.5 – 38°C)
Red	=	Temperature in the range of	100.5 – 109.22	(38 - 42.9°C)

Ear Temperature

Remove the ear probe cover. Press the power button. Pull the ear lobe back gently and insert the probe inside the ear. Press the Scan button until you hear a beep. Your reading is now ready. Clean the probe with a disinfectant wipe.

Room Temperature

The thermometer will automatically switch between the time and room temperature whilst placed in the stand. If you wish to turn off the thermometer, to conserve battery, press the black function button until you see "OFF". If you have not set the time on the thermometer, you will not have access to this feature. Please see the first note in these instructions on how to set the time.

Temperature Offset Function

The thermometers are calibrated upon leaving our factory. If however, you find that the temperature readings are off slightly when compared to another digital thermometer; you can adjust the temperature difference with the F-4 function and the scan button to make the adjustment.

Battery Replacement

When the battery needs replacing the thermometer will give you a "Lo" Warning with an icon of a low battery appearing at the bottom of the screen. Please replace the battery as soon as possible. The battery will continue to operate for some time but you should seek to replace it soon.



6.1)



(Fig 6.2)



(Fig 6.3)



(Fig6.4)











(Fig

Battery Replacement

Open the battery cover and take out the old battery(Fig6.3)

Put a new CR2032 button battery with cathode facing down into the battery seat. (Fig6.4)

Thermometer Symbols Key:




	View Sample Data
	Measuring in progress
	Ear temperature mode
	Forehead temperature mode
	Warning: Fever
	Celsius scale
	Fahrenheit scale
	Clock
	Low battery
	Memory of last body temperature

Others Settings


If you need to set any of the below the functions, power on the device, open the battery cover, press the "SET" button until you reach the desired mode. The function list is as follows:

NAME	FUNCTION	DESCRIPTION
F-1	Celsius/ Fahrenheit unit option	Select the temperature unit
F-2	Body/Object temperature selection	Ear/Forehead mode or Ear/Object mode selection. "body" means body temperature mode, "FACE" means object temperature mode.
F-3	Time setting	When you set time, the room temperature and time will display alternately
F-4	Offset setting	Set the temperature offset according to one's need as there maybe difference when skin color difference. The range is $\pm 3^{\circ}\text{C}$ (for forehead mode only).
F-5	Orange backlight temperature range setting.	The system default temperature range is $37.5^{\circ}\text{C} - 37.9^{\circ}\text{C}$, the user defined range is $\pm 0.3^{\circ}\text{C}$
F-6	Red backlight temperature range setting.	The system default temperature range is $38.0^{\circ}\text{C} - 42.9^{\circ}\text{C}$, the user defined range is $\pm 0.3^{\circ}\text{C}$, it will display priority when temperature range overlap with the range of orange backlight

Troubleshooting

Description	Meaning
	The measured body temperature > 100.5 – 109.22 F (38 - 42.9°C)
	The measured body temperature < 89.6 F
	When measures body temperature, the room temperature is exceed the working temperature range 50-140 F

Product Specifications

Model	IT-903
Temperature Range	Body:32.0°C -42.9°C (89.6°F-109.2°F)
	Objec:0°C-100°C(32°F-212°F)
Precision	Body : ±0.2°C/0.4°
	Object:±0.5°C/0.9°F
Resolution	0.1°C/0.1°F
Operating conditions	Body : 10.0°C-40.0°C(50.0°F-104.0°F) Rh≤80%
	Object :0°C-50°C(32°F-122°F) Rh≤80%
Storage conditions	-25.0°C-55.0°C (-13.0°F-131.0°F)Rh≤95%
Battery	1× 3V CR2032 button battery
Warranty	<p>Your baby thermometer is cover by our 12 month warranty. If we cannot repair it, we will simply replace it.</p> <p>The guarantee does not apply if the problem follows a misuse resulting from not following the instruction manual, accident damage, misuse or unintended use or any attempt to open/dismantle the product.</p> <p>Please ensure you leave the label bearing the serial number (S / N) of the product to facilitate traceability.</p>
	Product complies with the European Directive on medical devices MDD 93/42/ EEC

INFORMATION OF ELECTROMAGNETIC COMPATIBILITY

Table 1

Guidance and manufacturer's declaration of electromagnetic emissions		
The IT-903 is intended for use in the electromagnetic environment specified below. The customer or the user of the IT-903 should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The IT-903 is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
RF emissions CISPR 11	Class B	
Harmonic emissions IEC 61000-3-2	N/A	
Voltage fluctuations /flicker emissions IEC 61000-3-3	N/A	

Table 2

Guidance and manufacturer's declaration-electromagnetic immunity			
The IT-903 is intended for use in the electromagnetic environment specified below. The customer or the user of the IT-903 should assure that it is used in such an environment.			
Immunity test	IEC60601 test level	Compliance level	Electromagnetic environment –guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±2,±4,±6kV for Contact discharge ±2,±4,±8kV air discharge	±2,±4,±6kV for Contact discharge ±2,±4,±8kV air discharge	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%
Electrical fast transient/burst IEC 61000-4-4	±2 kV for a.c. power lines ±1 kV for d.c. power lines	N/A	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to earth	N/A	Mains power quality should be that of a typical commercial or hospital environment.

Voltage dips, short interruptions and voltage variations in power supply input lines IEC 61000-4-11	$<5\% U_T$ (>95 dip in U_T) for 0.5 cycle $40\% U_T$ (60% dip in U_T) for 5 cycles $70\% U_T$ (30% dip in U_T) for 25 cycles $<5\% U_T$ ($>95\%$ dip in U_T) for 5 s	N/A	Mains power quality should be that of a typical commercial or hospital environment. If the user of the IT-903 requires continued operation during power mains interruptions, it is recommended that the IT-903 be powered from an uninterruptible power supply or a battery
Power frequency (50/60Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment
NOTE U_T is the a.c. mains voltage prior to application of the test level.			

Table 3

Guidance and manufacturer's declaration-electromagnetic immunity			
The IT-903 is intended for use in the electromagnetic environment specified below. The customer or the user of the IT-903 should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Conducted RF IEC 61000-4-6	3Vrms 150kHz to 80MHz	N/A	Portable and mobile RF communications equipment should be used no closer to any part of the IT-903, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d=1.2 P$


Radiated RF IEC 61000-4-3	3V/m 80kHz to 2.5GHz	3V/m	$d=1.2 P$ 80MHz to 800MHz $d=2.3 P$ 800MHz to 2.5MHz Here 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 meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol: 
NOTE 1 At 90MHz and 800MHz, 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.			
<p>a</p> <p>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 IT-903 is used exceeds the applicable RF compliance level above, the IT-903 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the IT-903</p> <p>b</p> <p>Over the frequency range 150kHz to 80MHz, field strengths should be less than 3V/m.</p>			

Table 4

Recommended separation distances between portable and mobile RF communications equipment and the IT-903			
<p>The IT-903 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the IT-903 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the IT-903 as recommended below, according to the maximum output power of the communications equipment.</p>			
Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter M		
Rated maximum output power of transmitter	150kHz to 80MHz $d=1.2 P$	80MHz to 800MHz $d=1.2 P$	800MHz to 2.5GHz $d=2.3 P$
0.01	0.01	0.12	0.23
0.1	0.1	0.38	0.73
1	1	1.2	2.3
10	10	3.8	7.3
100	100	12	23
<p>For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (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.</p>			
<p>NOTE 1 At 80MHz and 800MHz, 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.</p>			



Please visit www.puretechbaby.com/warranty to register your free 12 month warranty.

If you have any questions or require support of any kind please contact us:

Customer support email: support@puretechbaby.com

Customer Support Tel: 323 545 7034 9am – 3pm Pacific Time

Once again thank you for your purchase from the Puretech Baby team.

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