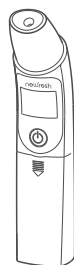


newfresh™

NT100

Digital Infrared Ear & Forehead Thermometer



SINGAPORE  
MEDICAL DEVICE  
REGISTER  
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## USER MANUAL

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### 1. PACKAGE CONTENTS

This package Includes:

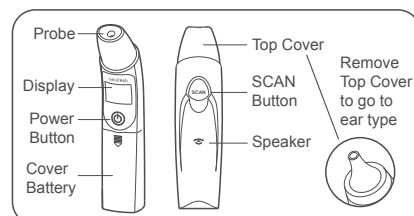
Ear & Forehead Thermometer	1pc
User Manual	1set
Case	1pc

### 2. PRODUCT OVERVIEW

This Digital Infrared Ear and Forehead Thermometer measures temperature directly from the ear canal or the forehead. It has the following advantages:

1. The probe is easy to clean.
2. Quick and accurate temperature measurements.
3. Convenient to use. One key operation.
4. Auto-display of the last measured temperature when power is switched on.
5. 12 memories recall.
6. Voice feature in English:  
You will hear "Please measure" when power is switched on and voice reporting of temperature reading after measurement.

### 3. PRODUCT DESCRIPTION



### 4. DEFINITION OF SYMBOLS

	Temperature reading
	Ear measuring mode
	Forehead measuring mode
	Degree Celsius
	Degree Fahrenheit
	Low battery indicator
	Last memory

### 5. EAR MEASURING MODE

1. Remove the Top Cover.
2. Press the POWER button once to switch on.
3. Display screen first shows as Figure 5.2 and then it shows the last measured reading (Figure 5.3).
4. Figure 5.4 will next appear. °C blinks and you will hear "please measure". The thermometer is now ready for measurement.
5. Gently fit the probe into your ear canal (Figure 5.1).
6. Press the 'SCAN' button once to measure.
7. The measured temperature will be voice reported in 1 second.
8. The measured temperature will also be displayed on the screen (Figure 5.5).
9. The interval is 3 seconds for the next measurement. When you see °C blinks and hear "please measure", you can start to measure again.
10. When the thermometer is unused, it will auto-power off after about 30 seconds later.
11. When the measured temperature is 37.8 °C and above, you will hear "you have fever".

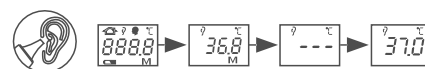


Figure 5.1 Figure 5.2 Figure 5.3 Figure 5.4 Figure 5.5

#### Important Notes:

It is recommended to clean the thermometer before and after use. Also avoid multiple using by different people to prevent cross infection.

Avoid taking temperature from the ear if you have just swam, bathed or have your ears covered for a long time. In such cases, it is recommended that you wait for at least 15 minutes before taking temperature readings.

Temperature readings taken from the right ear may be different from the left ear, hence it is recommended to measure from the same ear.

### 6. FOREHEAD MEASURING MODE

1. Press the POWER button once to switch on.
2. Display screen first shows as Figure 6.2 and then it shows the last measured reading (Figure 6.3).
3. Figure 6.4 will next appear. °C blinks and you will hear "please measure". The thermometer is now ready for measurement.
4. Position the probe at the forehead centre and contact it with the skin there (Figure 6.1).
5. Press the 'SCAN' button once to measure.
6. The measured temperature will be voice reported in 1 second.
7. The measured temperature will also be displayed on the screen (Figure 6.5).
8. The interval is 3 seconds for the next measurement. When you see °C blinks and hear "please measure", you can start to measure again.
9. When the thermometer is unused, it will auto-power off after about 30 seconds later.
10. When the measured temperature is 37.8 °C and above, you will hear "you have fever".



Figure 6.1 Figure 6.2 Figure 6.3 Figure 6.4 Figure 6.5

#### Important Notes:

This is a contact thermometer. The probe must contact the forehead to measure the temperature.

As the forehead temperature is likely to be affected by sweat, oil and the surrounding, the reading shall be taken as a reference only.

If the probe is placed wrongly at an angle instead of perpendicularly in contact with the forehead skin, the temperature reading shown may be that of the surrounding, hence may be lower than the correct body temperature.

### 7. SELECT °C or °F

1. At power off status, press and hold the 'SCAN' button. Release only when you see " --- ".
2. Once you released, you see °C or °F blinks.
3. Press the 'SCAN' button again to select °C or °F.
4. Once done, press the POWER button.

### 8. MEMORY RECALL

This thermometer can store up to 12 memories.

1. At power off status, press 'SCAN' button once and you will see " --- M " with the 'M' blinking.
2. Press 'SCAN' button again to see the latest reading.
3. Continue to press 'SCAN' button to see all the stored readings.
4. At anytime, you can press the POWER button to get out of the memory function.

### 9. BATTERY INDICATION & REPLACEMENT

#### Low Battery:

You will see a low battery symbol as shown in the below diagram. You can continue to use the thermometer for a short while before the battery power runs flat. Please change to new batteries as soon as possible.



#### Replace Battery:

- 1) Slide open the Battery Cover.
- 2) Remove the batteries inside the compartment.
- 3) Insert 2 new AA batteries into the compartment. Take note on the battery polarity.
- 4) Slide and close the Battery Cover.

### 10. OPERATION PRECAUTIONS

1. Always keep the probe's tip clean. Use a soft cloth and dampen it with water or alcohol to wipe the probe before and after use.
2. Do not touch the probe's tip with your figure.
3. Please note that the body of the thermometer is not water-resistant. Always keep the thermometer dry. Do not put the thermometer under running tap nor submerge it in water or any other liquid.
4. Do not place the thermometer in high temperature environment for a long time.
5. Store the thermometer in a cool and dry location. Free it away from dust and direct sunlight.
6. To avoid inaccuracy, do not take measurements immediately after exercise or bath. It is recommended to rest for at least 30 minutes before taking measurement.
7. Do not use the ear measuring mode if you are suffering from ear disease or wet canal.
8. Keep your mobile phone away when you take measurement as signal transmission may affect the accuracy of the measurement.
9. Do not disassemble the thermometer.
10. Normal body temperature varies from person to person. A person may have a normal temperature at 36.9 C but the other at 37.4 C.
11. The use of this thermometer is not intended to be a substitution to consulting your physician.

### 11. ABNORMAL CONDITIONS

Description	Meaning
	Measured temperature over 42.9°C (109.22°F)
	Measured temperature lower than 33.0°C (91.4°F)
	Environment temperature higher than the working temperature 10.0°C - 40.0°C (50.0°F - 104.0°F)

### 12. PRODUCT SPECIFICATIONS

Model No.	NT100
Measuring Range	34.0°C - 43.0°C (93.2°F - 109.4°F)
Accuracy	±0.3°C for 34.0°C - 34.9°C (±0.5°F for 93.2°F - 94.82°F) ±0.2°C for 35.0°C - 42.0°C (±0.4°F for 95.0°F - 107.6°F) ±0.3°C for 42.1°C - 43.0°C (±0.5°F for 107.78°F - 109.4°F)
Resolution	0.1°C / 0.2°F
Operation Condition	10.0°C ~ 40.0°C (50.0°F ~ 104.0°F) RH ≤ 80%
Storage Condition	-25.0°C ~ 55.0°C (-13.0°F ~ 131.0°F) RH ≤ 95%
Battery	AAA (2pcs)
Size (Body)	L145 X W35 X H40 mm
Weight	80g (including batteries)

### 13. Celsius and Fahrenheit Conversion

$$\text{Degree Celsius } ^\circ\text{C} = (^\circ\text{F} - 32) \times 5/9$$

$$\text{Degree Fahrenheit } ^\circ\text{F} = (^\circ\text{C} \times 9/5) + 32$$

### 14. NORMAL TEMPERATURE RANGE

Normal body temperatures range from 36.0°C to 37.2°C. Fever is a rise of body temperature above the normal range. A temperature above 38°C is considered as mild fever, Above 39°C and beyond, it is high fever.

Fever is rarely harmful, but a prolonged period of very high body temperature may be a sign of serious illness and is dangerous to small children.

Temperature changes throughout the day. It is lowest in the early morning (4 ~ 6am) and highest in the early evening (6 ~ 8pm). For newborn below one month old, the temperature taken in the evening could be 0.25°C higher than the temperature in the morning. For 6 month-old baby, the temperature difference could be 0.5°C and above one year-old, the temperature difference could be 1.0°C.

Body Site	0~2 years	3~10 years	11~65 years	>65 years
Oral		35.5-37.5°C	36.4-37.6°C	35.8-36.9°C
Rectum	36.4-38.0°C	36.6-38.0°C	37.0-38.1°C	36.2-37.3°C
Armpit	34.7-37.3°C	35.9-36.7°C	35.2-36.9°C	35.6-36.3°C
Ear	36.4-38.0°C	36.1-37.8°C	35.9-37.6°C	35.8-37.5°C
Forehead	36.4-37.8°C	36.4-37.8°C	36.8-37.9°C	35.9-37.1°C

### 15. WARRANTY

This thermometer is guaranteed for one year from the date of purchase. The warranty does not cover damages that are attributed to self disassembling of the product, unauthorized operations that are not found in this user manual and artificial damage to the product.

Thank you for choosing NewFresh product.