SALTER®

SINCE 1760

TOUCH-FREE INFRARED THERMOMETER

Instructions and Guarantee

Register your product today at
www.salterhousewares.com.au

This equipment needs to be installed and put into service in accordance with the information provided in this manual

NT17BRMFOB

INTRODUCTION

Utilising infrared technology, this thermometer takes temperatures in seconds by measuring heat generated by the surface skin of the forehead or other objects.
This product conforms to the provisions of the EC directive MDD(93/42/EEC). Its advantages include:

1. 6 in 1 Functions
   Human Body/Object/Night Mode Option/Fever Alarm/30 User Memory/Backlight
2. Night Mode Option
   Switch to Night mode to reduce the interference of buzzer during your baby sleeping.
3. Red LED Light for Fever Alarm
   This device has the LED light to remind user their readings are over 38°C and plus the beep sound only in Human Body Mode.
4. 30 User Memory
5. Illuminated Backlight Display
6. C/°F Switch-able Function
7. One-second reading
8. Auto power off for power saving
9. Low-battery Indicator
10. Large LCD Display
11. Economic design and convenience:
    This is a “Non-contact” medical thermometer that enables temperature readings, designed for sanitary conditions, cleanliness, and convenience. Simply move the thermometer close to the subject’s forehead or object at the distance indicated by the device.
12. Instant Measurement
    By using our unique technology, users can get their precise body temperature instantly and accurately.

IMPORTANT INFORMATION BEFORE USE

When using this product, please be sure to follow all the notes listed below. Any action against these notices may cause injury or affect the accuracy.

1. Do not disassemble, repair, or remodel the thermometer.
2. Be sure to clean the thermometer lens each time after usage.
3. Avoid direct finger contact with the lens.
4. No modification of this equipment is allowed.
5. It is recommended that user may take 3 temperatures. If they are different, use the highest reading.
6. Do not expose the thermometer to extreme temperature, very high humidity, or direct sunlight.
7. Avoid extreme shock or dropping the device.
8. Before the measurement, users and thermometer should stay in steady state room condition for at least 30 minutes.
9. Avoid measuring temperature for 30 minutes after exercise, bathing, or returning from outdoors.
10. To protect the environment, dispose of empty batteries at appropriate collection sites according to national or local regulations.
11. It is ill-advised to disassemble the thermometer.
12. Please use the thermometer solely for its intended purpose.
13. Carefully hold the device when in use to avoid dropping the device.
14. Allow one minute between successive measurements as slight variations may occur if measurements are taken over a short period of time. Use average temperatures instead.
15. There are no absolute body temperature standards. Keep reliable records of your personal temperature to serve as a reference for judging a fever.
16. Under any circumstances, the temperature taking result is ONLY for reference. Before taking any medical action, please consult your doctor.

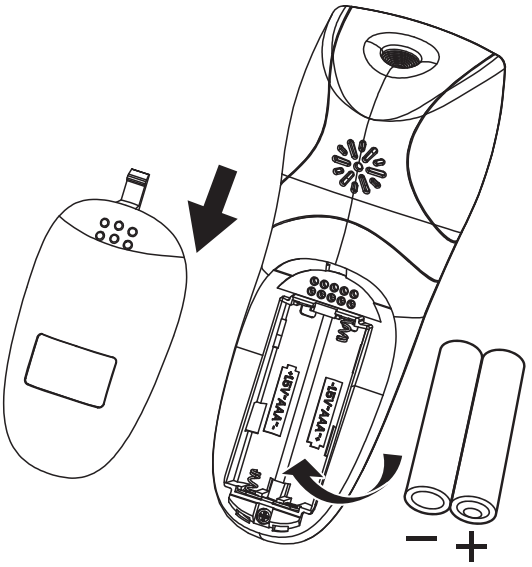
BATTERY INSTALLATION

Low Battery Warning

When the battery power becomes low, the low battery symbol will appear on the display. The thermometer can still be used during this time, but the batteries should be replaced as soon as possible. If the batteries run out completely, “Lo” will be displayed along with the low battery symbol. In this case, the batteries will need to be replaced before using the thermometer again.

Replacing the Battery

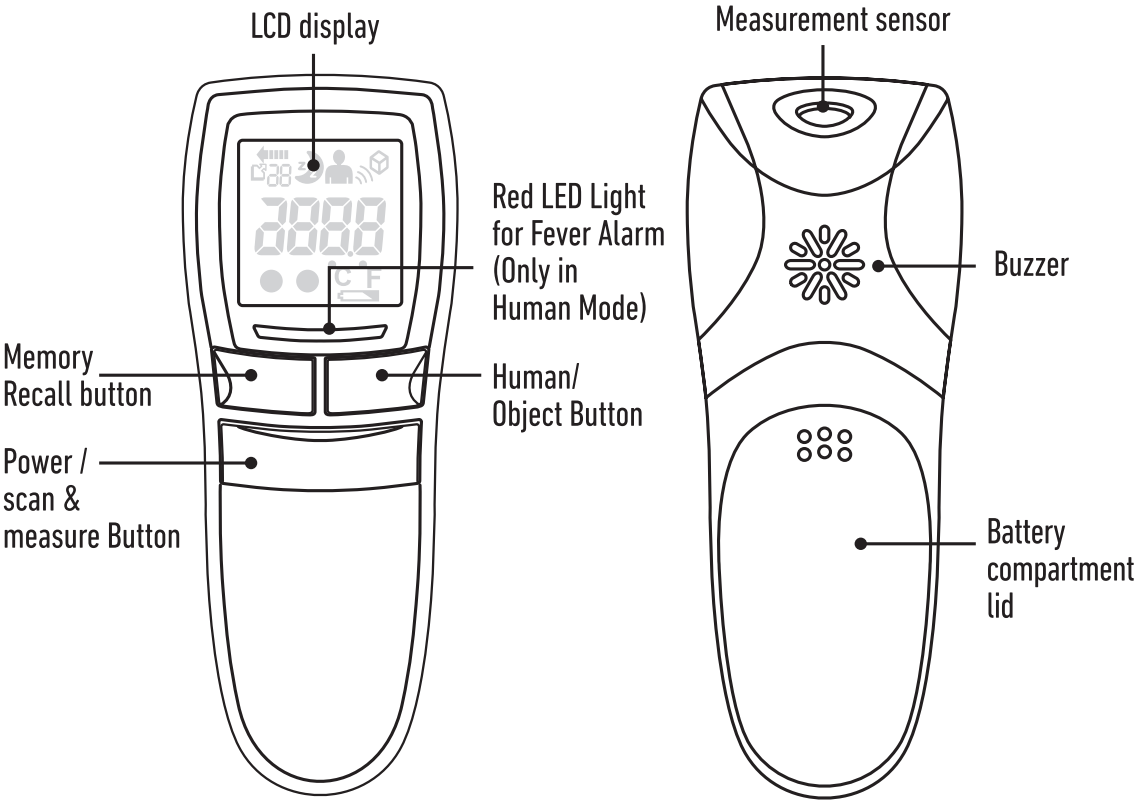
1. Gently slide the battery cover back.
2. Carefully remove the old batteries and properly discard.
3. Insert new batteries (Two 1.5 V alkaline AAA Size) according to the proper polarity.
4. Slide the battery cover back on.



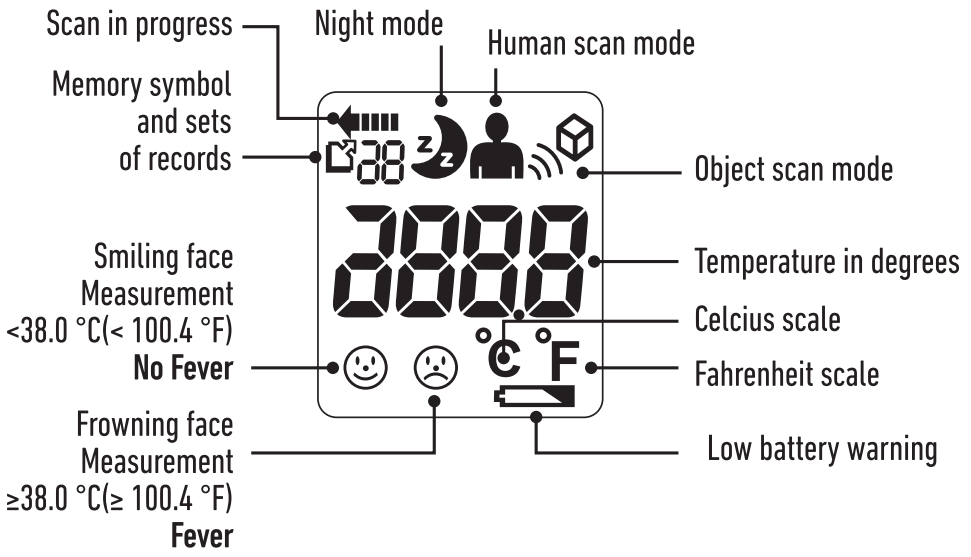
NOTE

- It is recommended to remove the batteries if the unit will not be used for an extended period of time.
- Please store batteries away from small children and heat.
- Do not use rechargeable batteries.
- Dispose of used batteries in accordance with the applicable legal regulations.
- Never dispose of batteries in the normal household waste.

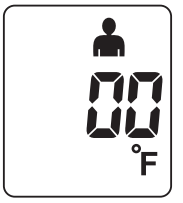
PRODUCT IDENTIFICATION

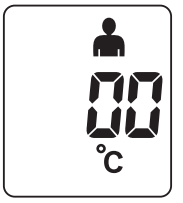


DESCRIPTION OF LCD DISPLAY



SWITCHING BETWEEN CELCIUS OR FAHRENHEIT

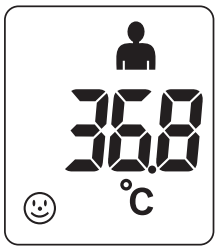




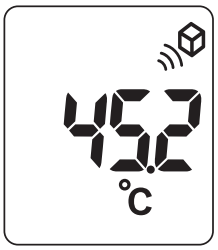
Your thermometer can display results in either degrees Celsius (°C) or degrees Fahrenheit (°F).
To switch between Celsius and Fahrenheit, while the unit is on press and hold both the Human/Object button and the Memory button for approximately 3 seconds. This will change the mode to either °C or °F. Once the thermometer beeps, at which time the mode has been changed and you may release the buttons.

Switching between 4 Kinds of Scan Mode

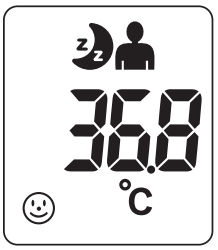
1. Under power on status, you can press the Human/Object button to switch different scan mode. There are 4 kinds of mode which including Human, Object, Human/Night, and Object/Night mode (in order).
2. The beep sounds will be closed when your choice in Human/Night mode, and Object/Night mode, and the Moon symbol will appears on the LCD in both Night mode.



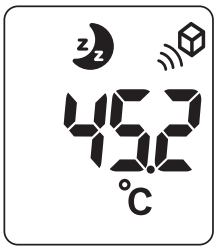
Human mode



Object mode



Human mode
& night mode



Object mode
& night mode

NOTE:
Each press will comes with a beep sound to ensure the setting is activated. (Except both Night modes)

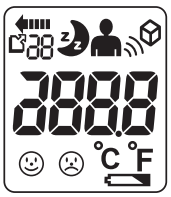
TIPS FOR MEASURING HUMAN TEMPERATURE

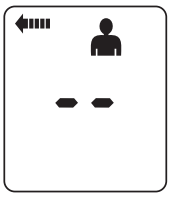
Bear in mind that the thermometer needs to have been in the room in which the measurement is taken for at least 30 minutes before use.

- Attempting to take temperature readings from sites on the body other than the forehead may produce inaccurate results.
- The patient should remain still while the reading is being taken.
- Infrared forehead temperature readings are equivalent to oral temperature readings. In all of these cases, please consult your doctor.
- Readings taken while asleep should not be compared directly to readings taken while awake, as body temperature while asleep is typically lower.
- Do not take body temperature readings within 30 minutes of being outdoors, exercising or bathing.

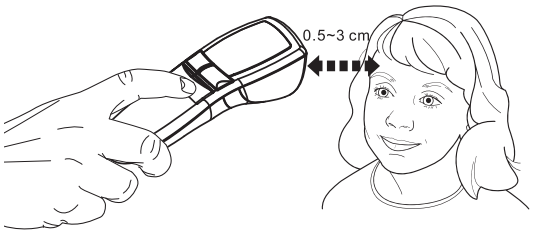
MEASURING HUMAN TEMPERATURE

1. Press the Power button to turn the thermometer on. The unit will run a self-test and all symbols on the display will momentarily appear.
2. Ensure that the thermometer is in Human mode; the Human symbol will be on the display. To alternate between modes press and release the Human/Object Mode button until you see the desired measurement symbol on the display.
3. Press and hold the “Scan & measure button”, aiming the





Measurement Sensor at the person's forehead, holding the thermometer approximately 0.5 ~ 3 cm. But don't touch the forehead.

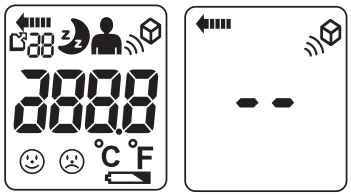


4. Release the "Scan & measure button". In about a second, you will hear a short beep meaning this temperature reading has been completed and accompany with a back-light.
5. If the temperature measurement is below 38 °C, a "Smiling Face" ☺ will appear next to the reading. If the reading is 38 °C or above, a "Frowning Face" ☹ will be displayed and the RED LED will light up. If your temperature is below 38 °C and you feel unwell, please consult a doctor.

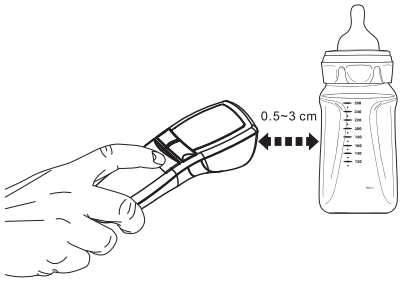
Fever Alarm – Only in Human Mode and Human/Night Mode

6. After about 30 seconds after use, the thermometer will automatically beep and shut off.

MEASURING OBJECT TEMPERATURE



1. Press the Power button to turn the thermometer on. All symbols on the display will momentarily appear.
2. Ensure that the thermometer is in Object mode; the Object symbol will be on the display. To alternate between modes press and release the Human/ Object Mode button until you see the desired measurement symbol on the display.
3. Press and hold the "Scan & measure button", aiming the Measurement Sensor at the object, holding the thermometer approximately 0.5 ~ 3 cm.



4. Release the "Scan & measure button" and the temperature reading will be displayed.
5. After about 30 seconds after use, the thermometer will automatically beep and shut off.

MEMORY FUNCTION

You can recall up to 30 stored measurements in memory to share with your doctor or trained healthcare professional.

Memory Recall button.

1. When the device is on, press once briefly on the “MEM button”, then pass it again to show the last measurement accompanied by 1 symbol.
2. The symbol or symbol will appear with each measurement stored in memory to indicate whether a person or object temperature was taken.
3. Each press of the same button recalls a previous measurement, so 30 then all the way to 1. Continue to press the **Memory Recall button** button to view the next previously stored measurement.
4. Any new measurement will be recorded and the oldest memory deleted without you having to do anything.

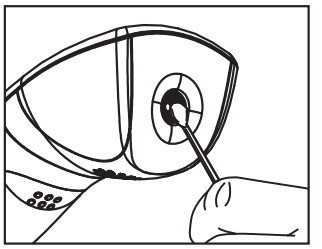
Memory Deletion

1. Under power on status, you may keep pressing MEM Button for more than 3 seconds to delete all the readings.
2. You will see “--” on display and “hear four short beeps”, that means all the memories are cleared.
3. Automatically on the 31st measurement: when the 30 memories have been used up, any new measurement will be recorded with 0 and the oldest memory deleted without you having to do anything.

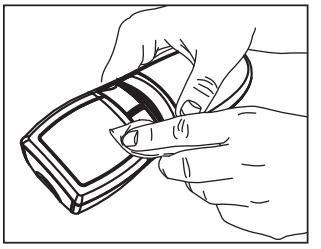
All the readings will be cleared no matter if recorded in Human mode or Object mode.

CLEANING AND DISINFECTING

Lens/ Measurement Sensor
Gently clean with an alcohol swab.
Do not use water to wash the thermometer lens directly.



Thermometer
Clean with a soft, dry cloth.
Do not use water to rinse the device.



APPLIED STANDARDS

This product conforms to the provisions of the EC directive MDD(93/ 42/ EEC). The following standards apply to design and/or manufacture of the products:

- ASTM E1965-98
  Standard Specification for Infrared Thermometers for Intermittent Determination of Patient Temperature.
- ISO 14971
  Medical devices-Application of risk management to medical devices. The Classification according to IEC/EN60601-1 sub-clauses 5:

ERROR CODES

When a malfunction or incorrect temperature measurement occurs, an error message will appear as described below.

LCD Display	Cause	Solution
	The temperature measured is higher than Human thermometer mode: 43°C (109.4°F) Object temperature mode: 100°C (212.0°F)	Operate the thermometer only between the specified temperature ranges. If necessary, clean the sensor tip. In the event of a repeated error message, contact your retailer or Customer Services.
	The temperature measured is lower than Human thermometer mode: 34°C (93.2 °F) Object temperature mode: 0 °C (32.0 °F)	
	The operating temperature is not in the range 16 °C ~ 40 °C (60.8 °F ~104 °F)	Operate the thermometer only between the specified temperature ranges.

TECHNICAL SPECIFICATION

- Measuring range:
  Human Body: 34°C ~43 °C (93.2 °F ~ 109.4 °F)
  Object: 0 °C~100 °C (32.0 °F~212.0 °F)
- Calibration Accuracy:
  Human Body:
  ±0.2 °C(±0.4°F): from 34 °C ~43 °C (93.2 °F ~ 109.4 °F)
  Object:
  <LESS THAN EQUAL TO>40 °C : ± 2°C
  > 40 °C : ± 5 %
- Power supply: 2 x 1.5 V AAA size alkaline batteries
- Dimensions: approx. 128.5 mm × 48.83 mm×38.85 mm (L×W×H)
- Weight : approx. 80 g (with batteries)
- Operation Distance : 0.5 ~ 3 cm

EXPLANATION OF SYMBOLS

CE 0598	SGS No.
	Refer to instructions
	Type BF equipment (Sensor)
	Disposal information: Should you wish to dispose of the article, do so in accordance with current regulations. Details are available from your local authority
	Manufacturer's name and address
EC REP	European Authorized Representative

EMC TABLES

<table>
<tr><th colspan="3">Guidance and manufacturer's declaration-electromagnetic emissions</th></tr>
<tr><td colspan="3">The thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the Thermometer should assure that it is used in such an environment.</td></tr>
<tr><th>Emissions test</th><th>Compliance</th><th>Electromagnetic environment guidance</th></tr>
<tr><td>RF emissions CISPR 11</td><td>Group 1</td><td>The 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 electronic equipment.</td></tr>
<tr><td>RF emissions CISPR 11</td><td>Class B</td><td rowspan="3">The thermometer 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.</td></tr>
<tr><td>Harmonic emissions
IEC 61000-3-2</td><td>Not applicable</td></tr>
<tr><td>Voltage fluctuations
Flicker emissions
IEC 61000-3-3</td><td>Not applicable</td></tr>
</table>

Guidance and manufacturer's declaration-electromagnetic immunity			
The Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the Thermometer should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	± 6kV contact ±8 kV air	Floor should be wood, concrete or ceramic tile. If floors are covered with shythetic material, the relative humidity should be at least 30 %.
Power frequency (50/60 Hz) magnetic field IEC 61000-4–8	3 A/m	3A/ m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

Guidance and manufacturer's declaration-electromagnetic immunity

The Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the Thermometer 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	3 Vrms 150 kHz to 80 MHz	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the thermometer, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance. $d=1.2\sqrt{P}$ $d=1.2\sqrt{P}$ 80 MHz to 800 MHZ $d=2.3\sqrt{P}$ 800 MHz to 2,5 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 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: 
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/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 from radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast can not 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 thermometer is used exceeds the applicable RF compliance level above, the thermometer should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Thermometer. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than [V1] V/m.

Recommended separation distances between portable and mobile RF communications equipment and the Thermometer			
The Thermometer is intended for use in an electromagnetic environment in which radiated RF distances are controlled. The customer or the user of the Thermometer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Thermometer as recommended below according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter / W	Separation distance according to frequency of transmitter / m		
	150 kHz to 80 MHZ $d=1.2\sqrt{P}$	80 MHz to 800 MHZ $d=1.2\sqrt{P}$	800 MHz to 2.5 GHz $d=2.3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

If this product does not reach you in an acceptable condition please contact our Customer Services Department by **www.salterhousewares.com.au**.
Please have your delivery note to hand as details from it will be required.

If you wish to return this product please return it to the retailer from where itwas purchased with your receipt (subject to their terms and conditions).

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