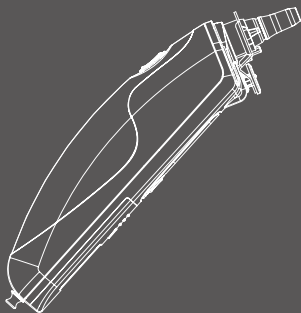
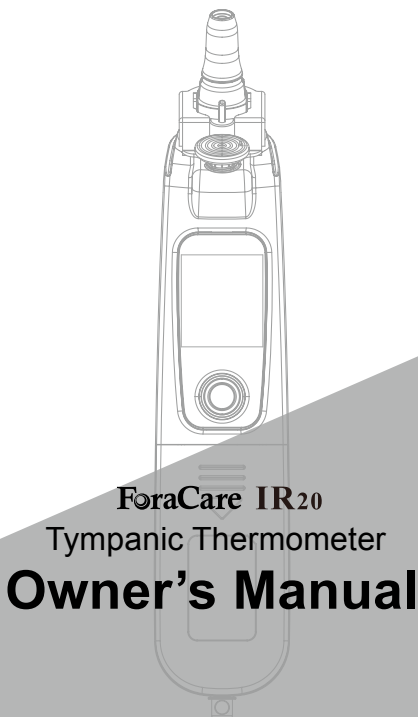


ForaCare[®]

Tympanic Thermometer

OWNER'S MANUAL





ForaCare IR20
Tympanic Thermometer
Owner's Manual

Version 1.0 May, 2013

IMPORTANT SAFETY INSTRUCTIONS

READ THIS BEFORE USING

The following basic safety precautions should always be taken.

1. Close supervision is necessary when the thermometer is used by, on, or near children, handicapped persons or invalids.
2. Use the thermometer only for the intended use described in this manual.
3. Do not use the thermometer if it is not working properly, or if it has suffered any damage.
4. Do not use accessories which are not supplied or recommended by the manufacturer.

KEEP THESE INSTRUCTIONS

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Cautions and Warnings

- ▲ As with any thermometer, proper technique is crucial to getting accurate temperature readings. ***Please read this manual thoroughly and carefully before using.***
- ▲ Always operate the thermometer in an operating temperature range 50°F to 104°F (10°C to 40°C), and relative humidity less than 95%.
- ▲ Always store the thermometer in a cool and dry place: temperatures between -4°F to 140°F (-20°C to 60°C) relative humidity less than 95%. ***Avoid direct sunlight.***
- ▲ ***Avoid dropping*** the thermometer or hitting it with a hard object. If it happens and you think the thermometer may be damaged, please contact customer services immediately.
- ▲ Use only ForaCare IR20 probe covers for the thermometer.
- ▲ For proper hygiene, do not re-use probe cover. Damaged probe cover may result in error display.
- ▲ Do not disassemble the thermometer.
- ▲ Basic safety precautions should always be observed, especially when the thermometer is used on or near children and disabled persons.
- ▲ This thermometer is not intended to be a substitution for consultation with your physician.
- ▲ Keep probe covers out of reach of children.
- ▲ Temperature measurements may differ from left to right ear. Always measure by using same ear.

Restrictions of Use

This thermometer is clinically proven to produce accurate temperature measurements. However, please be advised if you have the following situations:

- ▲ The accuracy cannot be ensured for a person who has deformity in the ear such that the thermometer probe can not be properly inserted into the ear canal.
- ▲ The accuracy cannot be ensured when blood or drainage is found in the ear canal.
- ▲ If ear drops or medications have been placed in an ear, take measurements from the other ear.
- ▲ For a person who wears ear plug or hearing aid, remove the device and wait for 15 minutes before taking temperature.

NOTE

Never try to clean inside the ears. You may accidentally damage the eardrum or its surrounding tissues. Remove excess earwax only when you can reach it with a clean cloth. Consult a physician if you suspect the presence of excess earwax.

Introduction

Thank you for choosing ForaCare IR20 tympanic thermometer tympanic thermometer. This innovative medical device relies on advanced infrared (IR) technology to measure temperature instantly.

Intended use

The ForaCare IR20 tympanic thermometer is intended for the intermittent measurement and monitoring of human body temperature from ear canal. The device is intended for use by people of all ages for home and professional use.

How does it work?

The thermometer measures the infrared heat generated by the eardrum and its surrounding tissue. The thermometer then converts it into a temperature value shown on LCD.

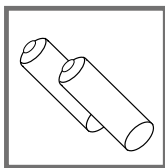
NOTE

The thermometer does not emit any infrared signal.

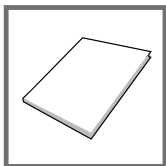
Package Contents



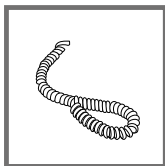
ForaCare IR20
Tympanic Thermometer



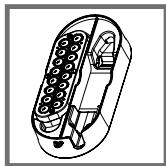
Two 1.5V AAA
Batteries



User's Manual

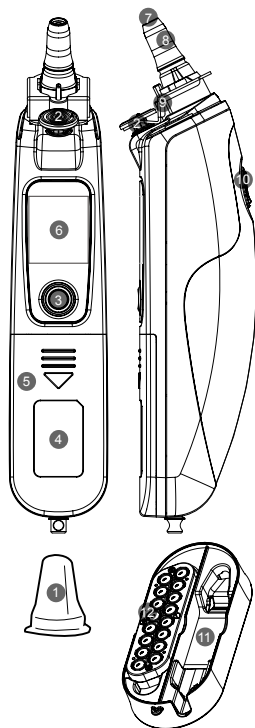


Spiral Cord



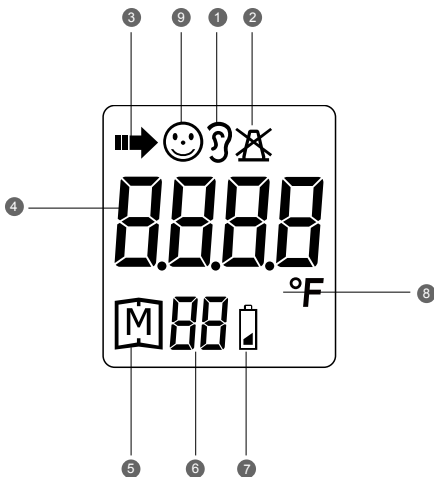
Storage Cradle

Thermometer Parts




- ① Probe cover
- ② Probe cover ejection button
- ③ On/Memory button
- ④ Manufacturing label
- ⑤ Battery cover
- ⑥ Display Screen
- ⑦ Probe lens
- ⑧ Probe
- ⑨ Probe cover detector
- ⑩ Scan button
- ⑪ Storage cradle
- ⑫ Probe cover cassette

LCD Screen



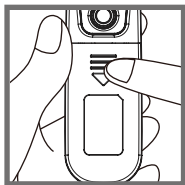
- ① Tympanic temperature indicator
- ② Probe cover missing
- ③ Temperature scanning in progress
- ④ Temperature display
- ⑤ Memory mode
- ⑥ Record numbers
- ⑦ Low battery indicator
- ⑧ Temperature unit
- ⑨ Temperature indicator for memory mode

Replacing the Battery

The thermometer comes with two 1.5V AAA alkaline batteries. Replace it when “” appears. Please follow the steps to replace new batteries.

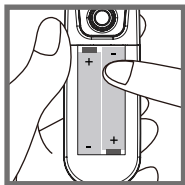
Step 1

Remove the battery cover.



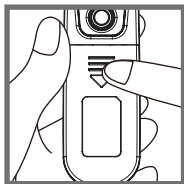
Step 2

Place the new batteries in the battery compartment and press it in until the batteries are secured.




Step 3

Reattach the battery cover.



NOTE

- ▲ Although the thermometer works when “” appears, we still recommend that you change the batteries to obtain an accurate result.
- ▲ Remove the batteries if stored for a long period of time.
- ▲ The batteries should be kept out of reach of children. If they are swallowed, promptly see a doctor for help.
- ▲ Properly dispose of the batteries according to your local environmental regulations.

About Normal Body Temperature & Fever

Body temperature can vary from one person to the next. It also varies by location on the body and different time of the day. Below shows the statistical normal ranges from different sites. Please keep in mind that temperatures measured from different sites, even at the same time, should not be directly compared.

Fever indicates that the body temperature is higher than normal. This symptom may be potentially caused by infection, overdressing or immunization. Some people may not experience fever even when they are ill. These include, but are not limited to, infants younger than 3 months old, persons with compromised immune systems, persons taking antibiotics, steroids or antipyretics (aspirin, ibuprofen, acetaminophen), or persons with certain chronic illnesses. ***Please consult your physician when you feel ill even if you do not have fever.***

Table 1^{*1}

Body Site	Normal Temperature Range
Oral	95.9°F - 99.5°F (35.5°C - 37.5°C)
Axillary (underarm)	94.5°F - 99.1°F (34.7°C - 37.3°C)
Rectal	97.9°F - 100.4°F (36.6°C - 38.0°C)
Ear	96.4°F - 100.4°F (35.8°C - 38.0°C)

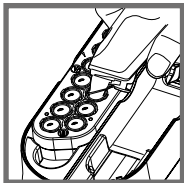
*1. Chamberlain, J. M. Terndrup, T. E., New Light on Thermometer Readings, Contemporary Pediatrics, March 1994.

Using the Device

Replacing Probe Cover

Step 1

Firmly insert the thermometer probe into new probe cover in the probe cover cassette.




Step 2

Lift the probe out of the cassette with a clean probe cover attached. Do not touch the cover.



Now, you can measure the temperature.

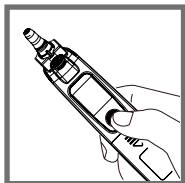
NOTE

- ▲ If a probe cover is not attached on the probe, LCD will show “” until a new probe cover is firmly attached to the probe.
- ▲ The used cover should be removed after each measurement to ensure accuracy reading.
- ▲ To ensure proper hygiene, attach a new probe cover each time and do not touch it.

Measuring Temperature

Step 1

Press and release the On / Memory button to turn on the thermometer. When ready, the thermometer displays the last measurement.



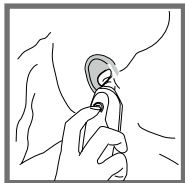
Step 2

Gently fit the probe with clean probe cover into the ear canal.



Step 3

Press and release the Scan button. You will hear a beep to indicate measurement is complete and thermometer may be removed.



Step 4

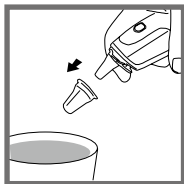
Read the result.

“ \mathfrak{J} ” is shown together with a temperature value.



Step 5

Press ejection button to discard used probe cover into trash.



NOTE

Turn off the thermometer by pressing On / Memory button twice. It will automatically turn off if left idle for 3 minutes.

If the reading is $\leq 89.5^{\circ}\text{F}$ (31.9°C), the display will show “Lo” together with orange backlight.

If the reading is $\geq 89.6^{\circ}\text{F}$ (32°C) and $< 100.3^{\circ}\text{F}$ (37.9°C), the display will show together with green backlight.

If the reading is $\geq 100.4^{\circ}\text{F}$ (38°C) and $< 109.4^{\circ}\text{F}$ (43°C), the display will show together with red backlight.

If the reading is $\geq 109.5^{\circ}\text{F}$ (43.1°C), the display will show “Hi” together with orange backlight.

Hints on Taking Tympanic Temperatures

1. As with other thermometers, you may observe slight variations in consecutive measurements. ***It is recommended that you take 3 temperature readings and use the highest one for the following situations:***

- ▲ Infants younger than 3 months old.
- ▲ Children younger than 3 years old and who have a compromised immune system and the presence / absence of fever is critical.
- ▲ When you are learning to use the thermometer.

2. Do not take a reading while the patient is and / or talking. Wait 30 minutes after any of the following situations before taking a measurement:

- ▲ When the ear has been covered.
- ▲ After the patient has been exercising, swimming, or taking a bath.
- ▲ When the patient has been exposed to extreme temperature.

3. To take accurate readings, the ear must be free from excess earwax build-up.

Recalling the Memory

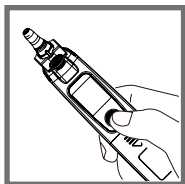
Your thermometer stores 10 recent readings in the memory.

Step 1

Be sure the thermometer is OFF before recalling this memory.

Step 2

Press the On / Memory button to turn on the thermometer.

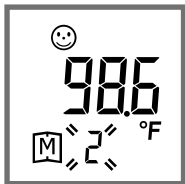
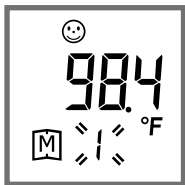


Step 3

Press the On / Memory button for 3 seconds to enter memory mode.


Each time you press the On / Memory button, a result will be displayed in the order of dates (latest result shown first), together with “M” and number (from 1 to 10).

When the memory is full, the oldest result is deleted as the new one added. When the last record is displayed in the LCD, press On / Memory button again to return the first record.



Step 4

Exit the memory.

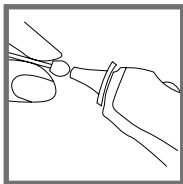
Press the Scan button and LCD will show latest results with flashing “  ”. Then press On/Memory button again and LCD will show “ OFF ” to exit memory.

Care & Cleaning

Cautions

It is important that users perform cleaning steps after each use, especially when detecting temperatures from different individuals.

- ▲ To clean the probe lens, wipe it gently with an 70% alcohol swab or soft cloth moistened with 70% alcohol.
- ▲ Do not attach new probe cover for 30 minutes. The cleaning process cools the probe and can affect accuracy.
- ▲ The probe is not waterproof. Please wipe with a clean cloth which is dry or damped with 70% alcohol.
- ▲ The body of the thermometer is not water-resistant. Never put the thermometer under a running tap or submerge it into water. Use a 10% chlorine bleach solution disposable wipe or a cloth dampened with that solution to clean the meter.
- ▲ Store the thermometer in a cool and dry location. Free from dust and away from direct sunlight.
















Fever Indicator

When the measurement is equal or over 100.4°F, red backlight is shown together with the result. The red backlight will last for 3 sec and turn off.

Troubleshooting

The table below shows problems you may encounter. All error messages below would be shown together with orange backlight. Please follow “what to do” to resolve problems. If the problem still exists, please call your local dealer for help.

Message	What it means	What to do
	Room temperature is below 50°F(10°C).	Use the thermometer in operating temperature range of 50°F to 104°F (10°C to 40°C).
	Room temperature is above 104°F(40°C).	Use the thermometer in operating temperature range of 50°F to 104°F (10°C to 40°C).
 	Probe cover is missing.	Place probe cover onto probe.
   	Problem with the thermometer.	Review the instructions and re-start the measurement procedure. If the steps do not work, contact dealer.
	Battery is low and “  ” appears on LCD.	Replace batteries as soon as possible.
	Appears when the batteries can't provide enough power for a test.	Replace batteries.
 	Temperature measurement falls outside the displayed temperature range: (ear temperature range from 89.6°F to 109.4°F(32°C to 43°C)).	Review the instructions and re-start the measurement procedure. If the steps do not work, contact dealer.

Specifications

Model no.	FORA IR20
Dimensions	165mm(W) x 32.4mm(H) x 38.7mm(D)
Weight	108.4g (include 2 x1.5V AAA batteries)
Battery	2 x 1.5V AAA alkaline batteries
Displayed temperature range	89.6°F to 109.4°F (32°C to 43°C)
Display resolution	0.1°F(0.1°C)
Accuracy	Meet the accuracy requirement specified in ASTM E1965-98 ▲ ±0.4°F (±0.2°C) for the range of 96.8°F to 102.2°F (36.0°C to 39.0°C) ▲ ±0.5°F (±0.3°C) from 93.2°F to 96.6°F (34.0°C to 35.9°C) and from 102.4°F to 108.0°F (39.1°C to 42.2°C)
Temperature unit	fixed °F or °C
Operating temperature range	50°F to 104°F (10°C to 40°C)
Operating humidity	95% RH or less
Storage temperature range	-4°F to 140°F (-20°C to 60 °C)
Storage humidity	95% RH or less
Memory capacity	10 measurements

The specifications may be changed without prior notice.

Warranty

- ▲ On behalf of Nurse Rosie Products, Fora Care Inc. warrants this product to be free of defects in workmanship and materials for a period on **ONE year** from the date of purchase.
- ▲ During the warranty period, if this product is found to be defective, you may contact Nurse Rosie Products for repair and/or replacement.
- ▲ This warranty is void if this product has been repaired or serviced by unauthorized person. This warranty does not cover defects caused by misuse, abuse, accident, tampering, poor maintenance, fire or any other acts beyond human control.
- ▲ Except as stated in the above paragraphs, ForaCare and Nurse Rosie Products disclaims all other warranties, implied or expressed, including the warranties of merchantability of fitness for a particular purpose with respect to the use of this product. TaiDoc and Nurse Rosie Products, shall not be liable for any direct, consequential or incidental damages arising out of the use or inability to use product.

NOTE

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Products made in Taiwan

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8:30am-5:00pm PST, Mon.-Fri.

www.foracare.com

At all other times, you should contact your health care professional for assistance.
Read instructions before use.