

Note:

When the memory is full, the oldest result is deleted as the new ones are added. While recalling previous readings, you may take a measurement by pressing the SCAN button.

ABOUT NORMAL BODY TEMPERATURE & FEVER

Body temperature can vary from one individual/person to the next. It also varies by location on the body and time of day. Fever indicates that the body temperature is higher than normal. This symptom may be 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 if you are concerned about your body temperature readings.**

MAINTENANCE

- FORA IR42 has no user serviceable internal parts except battery replacement.
- Always replace Sensor Cap (or place in cradle) when not in use.
- Store in a dry location free of dust and away from direct sunlight.

CLEANING AND DISINFECTION

- Use a soft dry cloth to clean the plastic casing or a cloth dampened with a solution of water and mild detergent. Occasionally, 70% isopropanol solution may be used. Never submerge in liquid.
- The sensor window is recessed to assist in keeping it clean and free of debris. Inspect the lens and remove any debris. Smudges may be cleaned by gently wiping the window with a small foam-tipped swab (non-linting) moistened with 70% alcohol. Wait 10 minutes prior to taking temperatures.

Manufacturer's declaration-electromagnetic emissions		
The IR42 is intended for use in the electromagnetic environment (for home healthcare) specified below. The customer or the user of the IR42 should assure that it is used in such an environment.		
Immunity test	Compliance	Electromagnetic environment-guidance (for home healthcare environment)
RF emissions CISPR 11	Group 1	The IR42 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.
RF emissions CISPR 11	Class B	The IR42 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations /flicker emissions IEC 61000-3-3	Not applicable	

Manufacturer's declaration-electromagnetic immunity			
The IR42 is intended for use in the electromagnetic environment (for home healthcare) specified below. The customer or the user of the IR42 should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance (for home healthcare environment)
Electrostatic discharge(ESD) IEC 61000-4-2	Contact:±8 kV Air:±2 kV,±4 kV, ±8 kV,±15 kV	Contact:±8 kV Air:±2 kV,±4 kV, ±8 kV,±15 kV	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	± 2kV for power supply lines ± 1kV for input/output lines	Not applicable Not applicable	Mains power quality should be that of a typical home healthcare environment.
Surge IEC 61000-4-5	+ 0.5kV, +1kV line(s) to line(s) + 0.5kV, +1kV, + 2kV line(s) to earth	Not applicable Not applicable	Mains power quality should be that of a typical home healthcare environment.
Voltage Dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Voltage dips: 0 % UT; 0,5 cycle 0 % UT; 1 cycle 70 % UT; 25/30 cycles	Voltage dips: Not applicable Not applicable Not applicable Voltage interruptions: Not applicable	Mains power quality should be that of a typical home healthcare environment. If the user of the IR42 requires continued operation during power mains interruptions, it is recommended that the IR42 be powered from an uninterruptible power supply or a battery.
Power frequency (50, 60 Hz) magnetic field IEC 61000-4-8	30 A/m 50 Hz or 60 Hz	30 A/m 50 Hz and 60 Hz	The IR42 power frequency magnetic fields should be at levels characteristic of a typical location in a typical home healthcare environment.
NOTE UT is the a.c. mains voltage prior to application of the test level.			

Manufacturer's declaration-electromagnetic immunity			
The IR42 is intended for use in the electromagnetic environment (for home healthcare) specified below. The customer or the user of the IR42 should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance (for home healthcare environment)
Conducted RF IEC 61000-4-6	3 Vrms: 0,15 MHz – 80 MHz 6 Vrms: in ISM and amateur radio bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz	Not applicable Not applicable	Portable and mobile RF communication equipment should be used no closer to any part of the IR42 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 80MHz to 800 MHz d = 2,3 √ P 800MHz to 2,7 GHz
Radiated RF IEC 61000-4-3	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	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). Interference may occur in the vicinity of equipment marked with the following symbol: (())
NOTE1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

Recommended separation distance between portable and mobile RF communications equipment and the IR42			
The IR42 is intended for use in an electromagnetic environment (for home healthcare) in which radiated RF disturbances are controlled. The customer or the user of the IR42 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the IR42 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 √ P	80 MHz to 800 MHz d = 1,2 √ P	800 MHz to 2,7 GHz d = 2,3 √ P
0,01	N/A	0,12	0,23
0,1	N/A	0,38	0,73
1	N/A	1,2	2,3
10	N/A	3,8	7,3
100	N/A	12	23
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. NOTE1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

Manufacturer's declaration-electromagnetic immunity							
Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment							
The IR42 is intended for use in the electromagnetic environment (for home healthcare) specified below. The customer or the user of the IR42 should assure that it is used in such an environment.							
Test frequency (MHz)	Band a) (MHz)	Service a)	Modulation b)	Maximum power (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)	Compliance LEVEL (V/m) (for home healthcare)
385	380 – 390	TETRA 400	Pulse modulation b) 18 Hz	1,8	0,3	27	27
450	430 – 470	GMSR 460, FRS 460	FM c) ±5 kHz deviation 1 kHz sine	2	0,3	28	28
710	704 – 787	LTE Band 13, 17	Pulse modulation b) 217 Hz	0,2	0,3	9	9
745							
780							
810	800 – 960	GSM 800/900, TETRA 800, IDEN 820, CDMA 850, LTE Band 5	Pulse modulation b) 18 Hz	2	0,3	28	28
870	1 700 – 1 990	GSM 1800, CDMA 1900, GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation b) 217 Hz	2	0,3	28	28
930							
1 720							
1 845	2 400 – 2 570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation b) 217 Hz	2	0,3	28	28
1 970							
2 450							
5 240	5 100 – 5 800	WLAN 802.11 a/n	Pulse modulation b) 217 Hz	0,2	0,3	9	9
5 500							
5 785							
NOTE 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 1 m. The 1 m test distance is permitted by IEC 61000-4-3.							
a) For some services, only the uplink frequencies are included. b) The carrier shall be modulated using a 50 % duty cycle square wave signal. c) 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.							

TROUBLESHOOTING

Message	What it means	What to do
	Appear when ambient temperature is outside of the operating temperature range.	Only operate the thermometer in ambient temperature range of 50°F to 104°F (10°C to 40°C).
	Measured temperature below the measurement range (below 89.6°F).	Review instructions and repeat measurement. Make sure distance from forehead is not greater than 2", and that the forehead is clear.
	Measured temperature above the measurement range (above 109.4°F).	Review instructions and repeat measurement. Consult with a physician if the problem persists.
	Low or no power.	Replace with new batteries.
	Surface temperature measured outside of the measurement range (32.0°F ~ 212.2°F).	Review the instructions and re-start the measurement procedure.

SPECIFICATIONS

Model No.: IR42
Dimension & Weight: 155.46 (L) x 40.14 (W) x 39.45 (H) mm, 61.8g (without battery)
Power Source: 2 x 1.5V AAA alkaline batteries
Battery Life: With new batteries, approx. 3,000 measurements.
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 95°F to 107.6°F (35.0°C to 42.0°C)
/ ±0.5°F (±0.3°C) for the range of <95°F (35.0°C) or >107.6°F (42.0°C)
Reference to Standards: ASTM E1965-98; IEC 60601-1; IEC 60601-1-2 (EMC)
Temperature unit: °F (Default) or °C
Operating temperature range: 50°F to 104°F (10°C to 40°C)
Operating humidity: 85% RH or less
Storage / transportation temperature range: -4°F to 140°F (-20°C to 60°C)
Storage / transportation humidity: 85% RH or less
Memory capacity: 30 measurements
Expected service life: 3 years
The specifications may be changed without prior notice.

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(8:30 am - 5:00 pm PST, Mon.-Fri.)
For assistance outside of these hours, please contact your healthcare professional.
www.foracare.com

Read instructions before use.

Version 1.0 2018/08
311-1242100-003

FORA® IR42

Forehead Thermometer Operating Instructions



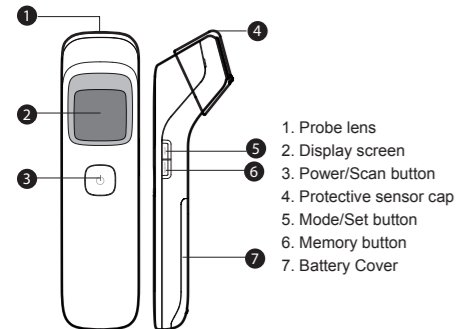
INTRODUCTION

Thank you for choosing FORA IR42 Forehead Thermometer. Please read this instruction manual first so you can use this thermometer safely and correctly. Please keep this instruction manual for future reference. This innovative medical device uses advanced infrared (IR) technology to measure temperature instantly and accurately on the forehead/surface. FORA IR42 Forehead Thermometer delivers a body temperature reading from the thermal radiation emitted from the forehead without contact to the body.

INTENDED USE

FORA IR42 Forehead Thermometer is intended for the intermittent measurement and monitoring of human body temperature from the forehead. The device is intended for use of all ages for home use by one with a good understanding of the operation instruction, where the patient may be an operator.

APPEARANCE AND KEY FUNCTIONS OF THE THERMOMETER



IMPORTANT SAFETY INSTRUCTIONS

READ THIS BEFORE USING AND KEEP THESE INSTRUCTIONS IN A SAFE PLACE

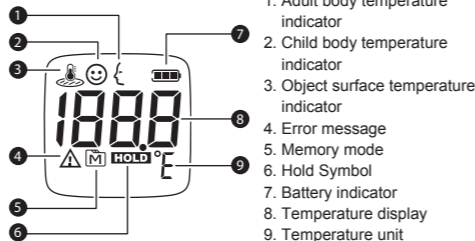
1. Close supervision is necessary when the thermometer is used by, on, or near children, handicapped persons or invalids.
2. Use the thermometer only for the intended use described in this manual.
3. Do not use the thermometer if it is not working properly, or if it has sustained any damage.
4. Keep the sensor end clean and free of debris. See Maintenance section for instructions.
5. Do not use ethylene oxide gas, heat, autoclave, or any other harsh methods to sterilize the device.
6. Put in place the protective sensor cap on the sensor end when not in use.
7. Do not use the device shortly after exercise, bathing or coming indoors.
8. If coming from an environment of warmer or cooler temperature or after a period of exertion, allow the user and the thermometer to acclimate to room temperature for 20 minutes prior to taking a measurement.
9. As the forehead temperature may be affected by sweat, oil and the surrounding temperature, the reading shall be taken as a reference only.
10. Do not use in presence of flammable anesthetic mixtures.
11. Do not use accessories which are not supplied or recommended by the manufacturer.
12. Proper maintenance is essential to the longevity of your device. If you are concerned about the accuracy of measurement, please contact the local customer service or place of purchase for help.

WARNING AND PRECAUTIONS

- As with any thermometer, proper technique is crucial to getting accurate temperature readings. Please read this manual thoroughly and carefully before use.

- Always operate the thermometer in an operating temperature range 50°F to 104°F (10°C to 40°C), and relative humidity less than 85%.
- 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 85%. Avoid direct sunlight.
- Avoid dropping 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 a consultation with your physician.

LCD SCREEN



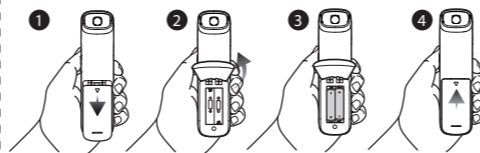
USING THE DEVICE

Selecting the measuring unit

When the thermometer is off, press MODE key for 2 seconds to enter selection mode. Press MODE key again to switch between °F and °C. Press POWER key.

Install Battery

1. Remove battery cover by pressing down at the arrow mark and slide in the direction of the arrow as shown in the figures below.
2. Install (2) AA alkaline batteries and close the battery cover.
3. If thermometer will be stored without use, remove batteries.



Measuring Temperature for Adults



1. Remove protective cap. The forehead should be clear of hair and perspiration.



2. Aim at the center forehead area 1.18 to 2.75" away from skin surface (3 to 7cm). Be sure the thermometer is perpendicular to the skin surface.



3. Press and release the SCAN button to take a measurement. A double "beep" sound indicates a reading has been taken and displayed on the LCD screen.

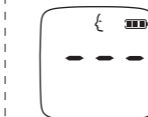
When a reading is greater than 100.4°F (38°C), a warning symbol will flash with Red backlight.

4. To take another measurement, follow step 2 and 3.
5. The thermometer turns off automatically after 30 seconds. Replace the sensory cap when finished.

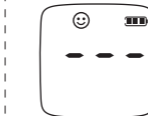
WARNING AND PRECAUTIONS

- If the reading is $< 89.5^{\circ}\text{F}$ (31.9°C), the display will show "Lo".
- If the reading is $\geq 89.6^{\circ}\text{F}$ (32.0°C) and $\leq 100.3^{\circ}\text{F}$ (37.9°C), the display will show the reading with green backlight.
- If the reading is $\geq 100.4^{\circ}\text{F}$ (38°C) and $\leq 109.4^{\circ}\text{F}$ (43°C), the display will show the reading with red backlight.
- If the reading is $\geq 109.5^{\circ}\text{F}$ (43.1°C), the display will show "Hi".

Measuring Temperature for Children



1. Press the SCAN button to turn on the thermometer.



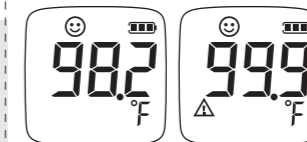
2. Press and hold the MODE button for 1 second before releasing. An adult facial profile should be flashing, indicating that the preset mode is for adults.

3. Press the MODE key to switch to Child mode, indicated by a smiley face icon.

4. Aim the scanner at the center of the child's forehead or temple 1.18 to 2.75" away from skin surface (3 to 7cm). Be sure the thermometer is perpendicular to the skin surface. Press and release the SCAN button to take a measurement.



Red backlight with a warning symbol indicates a reading greater than 99.8°F (37.6 °C).



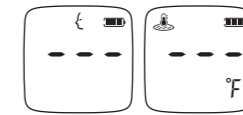
5. The thermometer automatically switches off when left idle for 30 seconds.
6. Replace the sensor cap when finished.

Note:

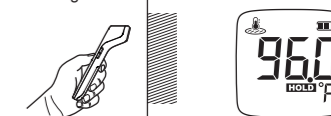
- If the reading is $\leq 89.5^{\circ}\text{F}$ (31.9°C), the display will show "Lo".
- If the reading is $\geq 89.6^{\circ}\text{F}$ (32°C) and $\leq 99.8^{\circ}\text{F}$ (37.6°C), the display will show the reading with green backlight.
- If the reading is $\geq 99.9^{\circ}\text{F}$ (37.7°C) and $\leq 109.4^{\circ}\text{F}$ (43°C), the display will show the reading with red backlight.
- If the reading is $\geq 109.5^{\circ}\text{F}$ (43.1°C), the display will show "Hi".
- Parents should not rely only on temperature readings. If you have concerns, please seek medical advice.

Measuring Surface Temperature

1. Press the SCAN button to turn on the thermometer.
2. Press and hold the MODE button for 1 second before releasing. An adult facial profile should be flashing, indicating that the preset mode is for adults.
3. Press the MODE key to switch to Surface mode, indicated by a thermometer icon.



4. Make sure the probe is flat and close to the object surface, not at an angle. Perform an object measurement with a distance within 1.9 in (5 cm). Press and hold the SCAN button as you move the meter along the surface. The HOLD symbol will be flashing.



5. Release the button and read the result. If the reading is $\geq 32^{\circ}\text{F}$ (0°C) and $\leq 212.2^{\circ}\text{F}$ (100.1°C), the display will show the reading with green backlight.

Note:

- If the reading is $\leq 32^{\circ}\text{F}$ (0°C), the display will show "Lo".
- If the reading is $\geq 212.2^{\circ}\text{F}$ (100.1°C), the display will show "Hi".

RECALLING PAST READINGS

FORA IR42 stores 30 most recent readings.

1. Press and release the SCAN button to turn on the thermometer.
2. Press and hold the MEMORY button for 1 second to enter the memory mode indicated by a flashing "M" symbol. The most recent reading stored will be displayed.



3. Press and release the MEMORY button to cycle through older readings.
4. When left idle for 30 seconds, the thermometer automatically switches off.