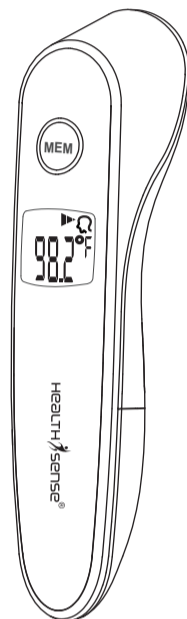


HEALTHsense

USER MANUAL

ACCU-SCAN INFRARED FOREHEAD THERMOMETER

Model: LFR30B



Sensing Health Everywhere

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Chapter 1 Safety Instructions

1.1 Warning

- Keep the device out of reach of infants, children or pets, since inhalation or swallowing of small parts (e.g. batteries) can be dangerous or even fatal.
- Do not use the thermometer for any other purpose than intended.
- The thermometer is not waterproof, do not immerse it in water or other liquids of any kind.
- Do not keep the thermometer in extreme environment.
- Please keep a distance of 0-5cm from the forehead center, better in between the eye and brow when measuring.**
- If the infrared thermometer is kept in a place where the temperature is lower or higher than that of the place where it is used, please put it in the room where it is to be used 30 minutes in advance.
- The device contains no user-serviceable parts.
- The user must check if the equipment can work safely, and see that it is in proper working condition before using.
- No modification of this equipment is allowed.
- The thermometer measurement does not substitute for diagnosis by physicians. If you feel unwell and the temperature has been measured above 99.5 (degree) F several times, consult your doctor.
- This infrared forehead thermometer does not apply to premature or underage infants.
- Do not allow children to take their own temperature without supervision.
- Do not remove the thermometer until you hear the beep.
- Please try to take the temperature in the same place, otherwise you may get different results.
- Do not hold the sensor when measuring to avoid the error code due to temperature instability.**
- The device is not suitable for use in the presence of flammable anesthetic mixtures with air, oxygen or nitrous oxide.
- The operator shall not touch battery container and the patient simultaneously.
- When the device is in use, there should be no any great power appliances such as high voltage cables, X-ray machine, ultrasound equipment and electrizier nearby.
- Electromagnetic field are capable of interfering with the proper performance of the thermometer. Therefore, make sure that all external devices operated in the vicinity of the thermometer comply with the relevant EMC requirements. Wireless communications equipment such as wireless home network devices, mobile phones, cordless telephones and their base stations, walkie-talkies or MRI devices are a possible source of interference as they may emit higher levels of electromagnetic radiation.
- Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

1.2 Precaution

- Please follow some instructions offered in Cleaning and Maintenance to clean the thermometer.
- Remove the battery when the thermometer will not be used for a long time.
- The thermometer contains high quality precision parts; do not crash the thermometer and avoid severe shock or vibration; do not twist the thermometer or its sensor.
- Seek medical treatment in time in case of dysphoria, vomiting, diarrhea, dehydration, appetite or behavioral pattern changes of unknown reasons.
- Please note the storage and use conditions in the section of "Product Specifications".
- Protect the thermometer sensor from dirt and dust.

1.3 Description of graphic symbols

Symbol	Description	Symbol	Description
	Caution		Upward
	Keep dry		Keep away from sunlight
	Type BF applied part		Fragile, handle with care
	Serial number		Date of manufacture
	Limit four-storay		No step
	Disposal instructions for electronic devices		Refer to instruction manual
	Use by date		Atmospheric pressure
	Manufacturer		Medical Device
	CE Mark And Identification Number of Notified Body		Authorized indicator the authorized representative European Community
	Catalogue number		Protected against solid foreign objects of 12.5mm and greater Protection against vertically falling water drops when IPX2/20/15

1.4 Environmental protection

The company designs and manufactures products for body temperature measurement according to the safety and environmental protection requirements. The equipment will not cause any harm to people or the environment if any outer cover of the product is not taken apart or the equipment is always used in a correct way.

Chapter 2 Product Description

2.1 Intended Purpose

2.1.1 Medical Indications

Infrared forehead thermometer is an infrared thermometer intended for the measurement of human body temperature in people of all ages without contact to the body and may be used by medical professionals or by consumers in a home environment.

2.1 Overview

Infrared Thermometer measures the body temperature based on the infrared energy emitted from the eardrum or the forehead. Users can quickly get measurement results after positioning properly the temperature probe in the ear canal or forehead. Normal body temperature is a range. The following tables shows that this normal range also varies by site. Therefore, readings from different site should not be directly compared. Tell your doctor what type of thermometer you used to take your temperature and on what part of the body. Also bear this in mind if you are diagnosing yourself.

	Normal Measurement Range
Forehead temperature	36.1°C to 37.5°C (97°F to 99.5°F)
Ear temperature	35.8°C to 38°C (96.4°F to 100.4°F)
Oral temperature	35.5°C to 37.5°C (95.9°F to 99.5°F)
Rectal temperature	36.6°C to 38°C (97.9°F to 100.4°F)
Axillary temperature	34.7°C-37.3°C (94.5°F-99.1°F)

2.2 Contraindication

N/A

2.3 Intended patient population

The device is intended for adults and infants, except premature.

2.1.4 Intended Users

The device is intended to be used by medical professionals or lay person who can express themselves normally.

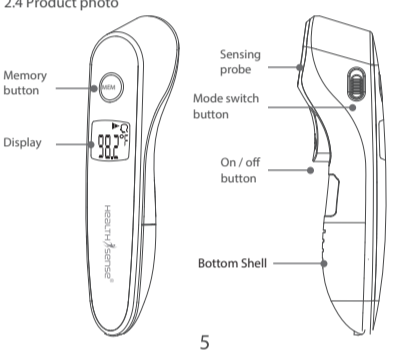
2.2 Clinical benefits to be expected

Ensure accuracy of the measurement.

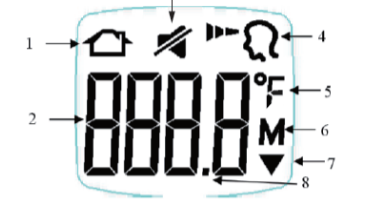
2.3 Structural composition

The infrared forehead thermometer is composed of sensing probe, mode switch button, on/off button, bottom shell, display, memory button.

2.4 Product photo



2.5 Display screen



2.6 Display screen

1. Calibration mode symbol	5. Unit symbol
2. Temperature display value	6. Mnemonic symbol
3. Sound switch symbol	7. Low battery symbol
4. Body mode symbol	8. Decimal point

2.6 Packing list

Names of articles	Quantity
Instruction manual, including warranty card and certificate of conformity	1
2 batteries, AAA 1.5V	1
Thermometer	1

Chapter 3 Benefits of using Infrared Thermometer

3.1 Quick

With the innovative infrared technology, it can quickly measure the body temperature in non-contact mode.

3.2 Accurate and reliable

By measuring the heat energy emitted from the forehead and calculating the body temperature accordingly, accurate readings can be obtained as long as it is held within a range of 5cm when measuring.

3.3 Simple and easy to use

The infrared forehead thermometer is about inductive measurement. It can easily measure the body temperature, even for sleeping children.

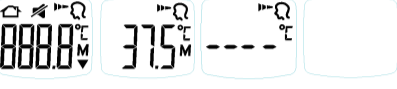
Compared with the rectal thermometer, a non-contact frontal thermometer can reduce the discomfort of children, and it is simpler and more practical than other thermometers in use.

3.4 Safe and hygienic

Contactless measurement can prevent the spread of bacteria; it is absolutely safe for children and adults.

4.3 Starting up

Press the "POWER BUTTON" button, then the backlight of the display comes on, the LCD is shown in full screen and displays the latest group of memory values, the equipment enters the waiting state for measurement; at this time, the backlight goes out, the LED on the forehead keeps flashing, and the equipment gets ready for measurement. If there is no operation for about 60 seconds, the equipment will shut down automatically.



4.4 Placement

Place the thermometer between the eyebrows, at a distance within 5cm from the center of the forehead; in non-contact mode, the blue pilot light will point to the area you are aiming at; if the eyebrow area is covered by hair, sweat or dirt, please clean it in advance to improve the accuracy of the reading.

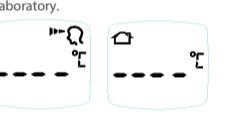
Keep the thermometer and forehead still when measuring, as movement will negatively affect the temperature reading.

4.5 Mode switch

Toggle the slide switch to select the Body mode / Calibration mode.

Body mode, i.e. operating mode and adjust mode, the measured result represents the equivalent temperature of the reference measurement part.

The calibration mode, test mode, represents the temperature directly measured by the sensor and is used to verify the accuracy of the laboratory.




Chapter 10 Warranty & Support

Entitle yourself for the 1 year HealthSense warranty by registering your purchase and easily reach us to submit your product related issues & queries, when you follow these hassle


At HealthSense our top priority has always been our valued customers. We very well know your HealthSense product is a part and parcel of your everyday life, which is why we are more easily accessible than earlier.

SCAN - For Warranty Registration



(Must register within 30 days from date of purchase)

SCAN - To File Complaint



(Fill & submit form if you are facing any product related issues)

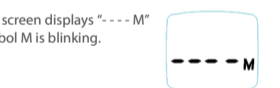
* For detailed warranty terms please visit the link: www.healthsense.in/warranty-terms

* For additional support: Mail us at support@healthsense.in or Call us on: 080-41262836

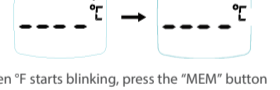
4.6 Unit switch

Step 1: When screen is OFF, press and hold "MEM" button.


Step 2: The screen displays "----M" where symbol M is blinking.



Step 3: Continue to hold the "MEM" button until the "M" symbol disappears and display changes to "----C"



Step 4: When "F" starts blinking, press the "MEM" button to change unit to "C" or "F" as preferred.

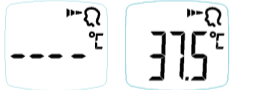


Note:

Switch the device OFF and ON to save your setting. The device shuts down if no activity for 60 seconds. The current settings are defaulted one device is rebooted.

4.8 Body temperature measurement

Toggle the slide switch to the body mode, press the button "POWER BUTTON measurement" to turn on the forehead thermometer, align the thermometer sensor to the position between eyebrows within 5cm from the forehead, press the button "POWER BUTTON measurement"; at this time, the distance focusing light comes on, quickly adjust the appropriate distance (preferably when two concentric circles are overlapping), when a "beep" is heard about 15 later no "beep" heard if the sound is disabled, it means that the body temperature has been measured, with the result displayed on the LCD screen;

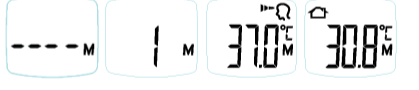


Note:

When the measured temperature is below 37.5 , the LCD backlight is green. When the measured temperature is between 37.5 -38.5 , the LCD backlight is yellow, reminding of low fever. When the measured temperature is higher than 38.5 , the LCD backlight is red, reminding of high fever with sound of "Beep", "Beep", "Beep".


4.10 Memory query

Press the button "Memory" to start up the thermometer, the screen displays "--M" and the symbol "M" flashes. Press the button "Memory" again to display the number of memory groups + M icon, and about 1 second later, show the display memory value + the symbol "M" flashes.




4.11 Memory deletion

In shutdown mode, press and hold the button "Memory", the sound setting appears 4 seconds later at first, and keep holding to clear the memory value 8 seconds later, at this time, it shows "Cl + M", which flashes with the sound of "Beep-Beep-Beep". After clearing, the equipment will shut down automatically.




4.12 Low battery indicator

When the battery voltage is below 2.60V, only the low-volt age symbol will appear after starting up, and it cannot be used for measurement before replacement of the batteries.



4.13 Shutdown

The equipment will shut down automatically if there is no operation for 60 seconds.



Chapter 5 Special Instructions for Safe Use

You should know the normal body temperature of individual when they are healthy, which will help you to accurately judge whether they have a fever. To get the normal body temperature, please take more measurements when they are healthy.

The normal temperature of children can be as high as 37.7 or as low as 36.1 . Please confirm it with a standard electronic thermometer.

The human body can regulate the temperature to keep the normal body temperature within a certain fluctuation range, up to 1 within a day. Besides, the internal temperature of the human body, i.e. the body core temperature, is different from the surface temperature of the skin, so we cannot simply define what temperature is "normal", as the body temperature is always in connection with to the measurement site. The level of body temperature is also affected by operating temperature, age, sleep time, hormonal readiness and physical activity.

Note:

Avoid taking the temperature until stay in the room for 30 minutes (the subject to be measured and the infrared forehead thermometer should be at the same operating temperature for at least 30 minutes).

Keep the infrared forehead thermometer and forehead still when measuring, do not move the thermometer before the last beep is heard.

Do not take the baby's temperature immediately after breastfeeding.

Wait a few minutes before taking the temperature after waking up.

Do not eat, drink or do any other physical activity before or during the temperature measurement. If there is a hat on head, please take it off and wait for 10 minutes before taking the temperature.

Please clean the dirt or oil on forehead before taking the temperature. Front bangs may cause readings to rise. Wait for 10 minutes before taking the temperature after cleaning the forehead.

Please take the temperature in strict accordance with the instructions. Temperature readings may be affected by improper placement.

For the following circumstances, it is recommended to measure the same site three times, and take the highest one as the final.

- Newborn babies less than 100 days old.
- Children under three years old, with low immunity and greatly affected by fever on health.
- The user learns to use the infrared forehead thermometer for the first time, who has little knowledge about the operation and fails to get stable readings.

If patients intend to take body temperature by their own, we recommend contact measurement.

Chapter 6 Troubleshooting

The infrared forehead thermometer has been calibrated before delivery from the factory. If you have any doubt about its accuracy, please contact the after-sales service. We recommend technical inspection for the measurement every two years, and it is required to comply with the applicable national regulations of the local place. Technical inspection for the measurement may be carried out by the government agencies in charge or by authorized fee-paying maintenance services.

6.1 Measured temperature too high

Error message on screen	Description	Possible causes and solutions
	The operating temperature is lower than 5°C/41 °F	Move to another warm room
	The operating temperature is higher than 40°C/104 °F	Move to another cool room

6.2 Measured temperature too low

Error message on screen	Description	Possible causes and solutions
	Measured body temperature is too high (above 43.0°C/109.4 °F)	The result exceeds the measurement range limit
	Measured object temperature is too high (above 100 /32.0 °F)	The result exceeds the measurement range limit
	Measured body temperature is too low (below 32.0 /89.6 °F)	The result exceeds the measurement range limit
	Measured object temperature is too low (below 0 /32.0 °F)	The result exceeds the measurement range limit

6.3 Ambient temperature out of range

Error message on screen	Description	Possible causes and solutions
	The operating temperature is lower than 5°C/41 °F	Move to another warm room
	The operating temperature is higher than 40°C/104 °F	Move to another cool room

6.4 Other error messages

Error message on screen	Description	Possible causes and solutions
	Exposure error	Please contact HealthSense customer service team
	Hardware error	Please contact HealthSense customer service team

Chapter 7 Cleaning and Maintenance

Clean with a dry soft cloth. If the engine is particularly dirty, wipe with a wet and wrung out cloth and then dry it with a dry cloth. Disinfect the product only when necessary; disinfection is recommended to carry out by wiping the product surface twice with disinfectant. Do not soak or use gas for disinfection. Use of medical alcohol is recommended.

If necessary, clean the infrared forehead thermometer first when repeated measurement of the body temperature is required. Clean the thermometer shell and sensor with alcohol swab or cotton ball dipped in alcohol (70%), and be careful to avoid liquid entering the thermometer. No use of corrosive detergent, diluent or benzene solvent is allowed. Do not immerse the thermometer in water or other cleaning solutions of any kind.

Do not expose the equipment to high temperature, high humidity, dust or direct sunlight.

Remove the batteries when the thermometer will not be used for a long time.

Chapter 8 Product Specification

8.1 Product safety specification

Parameter	Specification
Shock protection type	Equipment supplied with internal power
Shock protection grade	Type BF
Operating mode	Continuous
Movement level	Transportable equipment
EMC group	Class B, Group 1

8.2 Product environment specification

Environment	Specification
Operating temperature range	Operating temperature: 5 ~40 Storage/transport temperature: 20 ~+55
Humidity range	Working humidity: ≤ 85% Storage/transport humidity: < 95%
Operating air pressure range	Working air pressure: 70 kPa ~106 kPa Storage air pressure: 70 kPa ~106 kPa
Protection against harmful ingress of water and particulate matter	IP22

8.3 Product hardware specification

Parameter	Specification
Product name	Infrared Forehead Thermometer
Product model	LFR30B
Size	About 168.5(L) mm x 36(W)mm x 48(H) mm
Weight	About 95g (including battery)
Display screen	Segmented LCD display screen
Power supply	4x AAA (2 batteries, AAA)
Data Storage	Up to 99 sets of measurements can be stored
Product service life	5 years

8.4 Product measurement specification

Parameter	Specification
Measuring position	Forehead (between eyebrows)
Reference body site	Axilla
Measurement rang	32.0 ~43.0 (89.6 °F ~ 109.4 °F)
Resolution	0.1 /0.1°F
Unit	°C / °F
Laboratory Accuracy	Between 34 and 43 : ±0.3 Not within this range : ±0.4
Minimum measuring time	One second
Minimum measuring interval	One second

8.5 Product measurement specification

Parameter	Specification
Surge	IEC 61000-4-5
Voltage dips, short interruptions and voltage variations on power supply input lines	IEC 61000-4-11
Power frequency magnetic field	IEC 61000-4-8
Conducted RF	IEC 61000-4-6
Radiated RF	IEC 61000-4-3

NOTE: UT is the a.c. mains voltage prior to application of the test level.

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