

# Non-Contact Infrared Thermometer

Model # JXB-183  
Reference # 09-183



**Includes:**

- Thermometer
- 2 AAA Batteries
- 1 User Guide

**Please read this instruction manual completely before operating this unit.**

**NOTE:** You must read this instruction manual completely before use and follow all instructions. Keep the instructions for later use. You must check the device functions according to this instruction manual prior to each use and only use this device if it is in proper working condition.

## INTRODUCTION & INTENDED USE

Thank you for purchasing this Non-Contact Infrared Thermometer. Please read this instruction manual completely before using your unit to ensure safe use, accurate results and long life of the thermometer.

This device is an infrared thermometer that is intended to measure the forehead temperature of individuals of all ages without making contact with the individual whose temperature is being taken. It can be used by consumers in household environment and doctor in clinic as reference.

The infrared technology used in this thermometer takes the temperature of people and objects without any physical contact between the thermometer and the person or object. The thermometer measures body temperature from approximately 1.2" – 2" from the forehead, making it less invasive and threatening than other thermometers, as well as more sanitary. It can even be used when the patient is sleeping. This thermometer also measures the temperature of objects and liquids, making it useful for determining if a baby's milk or bathwater is ready.

All people and objects emit infrared energy. The Non-Contact Infrared Thermometer measures that energy, taking multiple readings quickly and converting those data to a single peak temperature, which appears on the display.

## WARNINGS & CAUTIONS

**NOTE:** Read all instructions carefully before use. The following basic precautions are needed when using an electrical product.

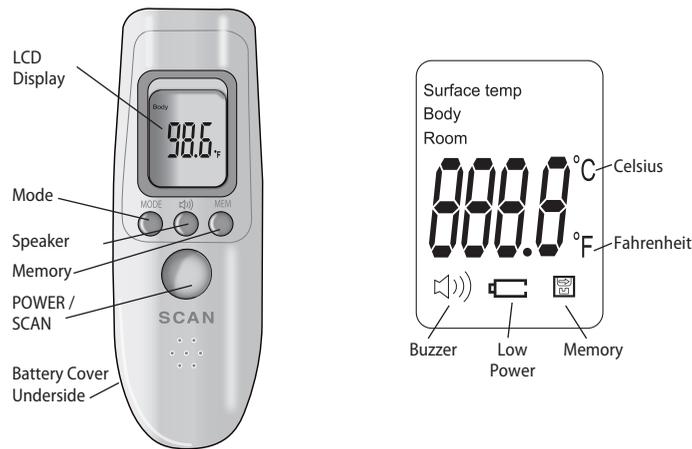
**CAUTION:** Failure to read and observe all precautions could result in personal injury or equipment damage.

- Use as directed in this manual; misuse may void the warranty.
- This thermometer may be used for professional purposes or for personal home use.

## WARNINGS & CAUTIONS -- CONTINUED

- Measurement results should be discussed with your physician or healthcare professional; never self-diagnose, attempt treatment or alter medications this may be dangerous.
- The patient is the intended operator of this device.
- Wait approximately 30 minutes before measurement after strenuous physical activity, bathing, spending time outdoors or other activity which may artificially affect temperatures.
- Operation outside of stated operating temperature may result in measurement error or device malfunction; operation environment temperature is 50°F –104°F (10°C – 40°C); Humidity: ≤85%RH max.
- If the thermometer is stored outside of operating temperature range, allow at least 30 minutes in correct range before taking a measurement.
- Keep in a clean, dry area; do not store the thermometer in direct sunlight, dusty or humid environments, or extreme temperatures.
- Clean the lens before use; do not touch the lens directly with your fingers.
- Do not expose this thermometer to electric shocks.
- Do not drop this thermometer.
- Follow the included cleaning and storage instructions; do not submerge the thermometer or wet.
- Do not use this thermometer if it is damaged.
- Do not disassemble the unit or attempt to repair it; substitution of a component different from that supplied may result in measurement error and will void manufacturer warranty.
- Remove the batteries if you do not wish to use the unit for an extended period of time.
- Keep the thermometer away from electromagnetic fields produced by objects such as microwave ovens, arc welders or induction heaters.
- A control measurement using a conventional stick thermometer is recommended in the following cases:
  - If the reading is surprisingly low.
  - For new-born infants up to 100 days old.
  - For children under three years of age who have a weakened immune system or who react unusually in the presence or absence of fever.
  - If you are using the thermometer for the first time or want to familiarise yourself with it.

## PRODUCT FEATURES & DISPLAY SYMBOLS



°F / °C	FAHRENHEIT OR CELSIUS TEMPERATURE MODE	Surface temp	SURFACE / OBJECT MEASUREMENT MODE
	LOW BATTERY	Body	BODY/PERSON MEASUREMENT MODE
	SPEAKER IS ON WHEN SHOWN	Room	AMBIENT / ROOM MEASUREMENT MODE
	MEMORY RECALL		

## TIPS FOR MEASURING BODY TEMPS

- Wait at least one minute between consecutive readings to help ensure accuracy.
- 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.
- If "Lo," "Hi," or another error message appears, see the Troubleshooting section of this manual for instructions on how to resolve the problem.
- 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.
- Level of activity, time of day, and other factors may affect body temperature. Keep records of your individual body temperature to use as a reference when judging a fever.

## MEASUREMENT MODES DEFINITION & USE

The Non-Contact Infrared Thermometer offers a selection of settings for use on people, objects or ambient air temperature.

When powered on, the device will default to the last mode used.

To toggle between modes, when the device is ON, press and release the MODE button to select the desired measurement type. The words indicating the type will appear on the display:

- Surface temp** — used for checking baby bottles, bathwater, food or similar items. Always use caution when checking the temperature of food or beverages.
- Body** — used for body temperature measurements taken at the forehead.
- Room** — used for determining the ambient (air) temperature of a room.

## SWITCHING BETWEEN °F / °C

Your thermometer can display results in either degrees Fahrenheit (°F) or degrees Celsius (°C).

To switch between Fahrenheit and Celsius, while the unit is on press and hold **MODE**. The display will flash F-1 and the current degree in use °F (°C). Press and release **MODE** to toggle between °F / °C. Press **MEM** to confirm selection. The thermometer is now ready for measurement.

## SETTING NIGHT/SLEEPING MODE

Night Mode is a convenient way to conduct measurements without an audible beep indicating the thermometer has powered on or a measurement is complete.

The **Speaker** button on the front of the device can be pressed at any time while the device is powered ON.

The small speaker icon on the bottom left of the display screen will appear when the sound is on, and will not show on the display when the sound is off.

## MEASURING SURFACE/OBJECT TEMPS

The Non-Contact Infrared Thermometer can measure objects and liquids from 32°F to 140°F (0°C - 60°C). To measure the temperature of an object or liquid using your Non-Contact Infrared Thermometer, follow these steps:

**CAUTION:** Surface mode measures the temperature at the surface of the object measured. Use common sense caution when testing food, drink or bathwater to protect against possible burns.

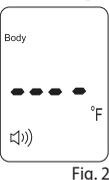
- Press and release the **SCAN** button to turn the thermometer on. The unit will run a self-test and all symbols on the display will momentarily appear.
- Press and release the **MODE** button to scroll through and select Surface temp to measure an object.
- Aim the infrared lens at the object, holding the thermometer approximately 1.2" – 2.0" away.
- The thermometer will emit a single beep and the temperature results will be displayed.
- After 30-seconds of non-use, the thermometer will automatically shut off.

## MEASURING BODY TEMPERATURE

To measure body temperature using your Non-Contact Infrared Thermometer, follow the below steps.

- Press and release the **SCAN** button to turn the thermometer on. The unit will run a self-test and all symbols on the display will momentarily appear, Fig. 1.
- The display will show dashed lines, the selected mode, the speaker icon (if audio beeps are active) and the temperature mode (°F/°C). The thermometer is ready for measurement.
- Aim the infrared lens at the individual's forehead, holding the thermometer approximately 1.2" – 2.0" away.

**NOTE:** Proper placement and position of the sensor is crucial for effective and accurate measurement. The forehead should be clean and clear of excessive lotion or oil.



- Press and release the **SCAN** button.
- The thermometer will emit a single beep and the temperature reading will be displayed and the fever alert back light will illuminate, Fig. 3.
- The display will illuminate, indicating if a fever may be present:
  - GREEN** — ≤ 99.1°F (37.3°C); no fever is present
  - ORANGE** — 99.2°F ~ 100.2°F (37.4°C ~ 37.9°C); mild fever is present
  - RED** — ≥ 100.3°F (≥ 38.0°C); high fever is present
- After 30-seconds of non-use, the thermometer will automatically shut off.

## MEASURING AMBIENT/ROOM TEMPS

The Non-Contact Infrared Thermometer can measure the ambient air in a room from 32°F to 104°F (0°C - 40°C). To measure the temperature of the room using your Non-Contact Infrared Thermometer, follow these steps:

- Press and release the **SCAN** button to turn the thermometer on. The unit will run a self-test and all symbols on the display will momentarily appear.
- Press and release the **MODE** button to scroll through and select Room to measure an object.
- Aim the infrared lens away from you or other persons into the air. Take care not to point at a heat or cool air flow source such as a vent or fan..
- The thermometer will emit a single beep and the temperature results will be displayed.
- After 30-seconds of non-use, the thermometer will automatically shut off.

## RECALLING & CLEARING READINGS

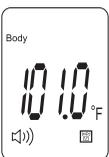
Your Non-Contact Infrared Thermometer automatically stores the last 32 readings taken. To view the readings stored in memory, follow these steps:

- Press the **SCAN** button to turn the thermometer on.
- Press the Memory button (marked, "MEM") to recall the most recent measurement.
- Press and release the **MEM** button scroll through the readings from newest to oldest.



The index number will briefly flash on the display indicating the sequential number of the stored reading and the memory icon will show on the bottom right of the display, Fig 1.

- The display will indicate the recalled temperature, the mode method, and if it is a Body measurement, will illuminate the corresponding color if a fever was present or not, Fig 2.



After 32 measurements have been stored in the memory, the oldest reading will be automatically deleted.

To clear all records from the memory, hold the **MEM** button down until you hear a beep and three dashes appear on the display. The memory bank is now empty.

## REPLACING BATTERY

When the battery power becomes low, the low battery symbol will appear on the display. Replace the batteries as soon as possible.

The batteries used in the Non-Contact Infrared Thermometer are two AAA batteries. Rechargeable batteries are not recommended for this device. To replace the batteries, follow these steps:

- Carefully remove the battery cover.
- Remove the old batteries. Do not use a metal-pointed tool.
- Insert the new batteries, ensuring that the positive and negative ends are aligned correctly.
- Replace the battery cover.
- Dispose of the expired batteries in accordance with local environmental policies.



## CLEANING & STORAGE

The lens should be cleaned before and after each use, to eliminate dirt and fingerprints and ensure the accuracy of your readings. Proper storage will prevent degradation and damage to the unit.

### CLEANING:

- An alcohol swab, or a soft cotton cloth moistened with 95% alcohol, should be used to gently cleanse the lens. Do not use water to wash the thermometer.
- The body of the thermometer can be cleaned with a soft, dry cloth.
- Never use a paper towel to clean the probe tip, as it may scratch the lens.
- Do not immerse the thermometer or allow liquid to enter the casing.
- Do not use cleaning agents other than alcohol to clean the thermometer; abrasives, thinners or gasoline will damage the unit.
- Do not use the thermometer again until it is completely dry and keep it stand still at least 30 minutes.

### STORAGE:

- Store the unit in an area away from sunlight, dust and humidity.
- Protect the thermometer from mechanical shock or heavy impact.
- Avoid extended exposure to extreme temperatures. The thermometer should be stored in an environment between -4°F and 131°F (-20°C—55°C), and with relative humidity of 95% or lower.
- Remove the batteries during extended storage.

## TROUBLE SHOOTING

Performance may be degraded should one or more of the following occur:

- Operation outside stated temperature and humidity range.
- Storage outside state temperature and humidity range.
- Mechanical shock.
- Patient temperature is below ambient temperature.

The following chart indicates error messages that may appear on your display, why they appear, and how you may solve the problem.

Error Symbol	Problem or Cause	Solution
	Low battery.	Replace battery before using thermometer again.
	Unit turned off or battery problem.	Press Power button to activate unit. Check battery type or polarity (position in the unit). Replace battery.
	Temperature measurement is below typical temperature range.	Ensure the mode selection is correct for type of measurement attempted. Reposition the thermometer and try again.
	Temperature measurement is above typical temperature range.	Ensure the mode selection is correct for type of measurement attempted. Reposition the thermometer and try again.

Follow the instructions in this manual to ensure proper use. Dependent upon selected mode, events such as a drafty or too hot room may affect the results. Device should only be stored and operated in the stated environmental ranges on the specifications page of this manual.

## DEVICE & LABEL SYMBOLS

These symbols may appear on your device, instructions or packaging and may vary by make and model.

Symbol	Meaning	Symbol	Meaning
	Read This Manual: All included manuals should be read prior to first use		Manufacturer
	Warning		IP22: Protected against access to hazardous parts with a finger and against vertically falling water drops when enclosure tilted up to 15°
	Type BF Applied Parts		Serial number
	Environment Protection: Dispose of this product properly; consult with your local recycling ordinances for proper recycling and disposal		Batch Number
			This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

## SPECIFICATIONS

<b>Name</b>	Non-Contact Infrared Thermometer
<b>Model Number</b>	JXB-183
<b>Reference Number</b>	09-183
<b>Display System</b>	Liquid Crystal Display with 0.1° F (0.1° C) resolution
<b>Measuring Range</b>	Human body: 89.6°F–109.4°F; (32°C–43.0°C) Surface: 32°F–140°F (0°C–60°C) Room Temp: 32°F–104°F (0°C–40°C)
<b>Accuracy</b>	32.0°C~34.9°C(89.6°F~94.8°F) ±0.3°C(±0.6°F) 35.0°C~42.1°C(95°F~107.6°F) ±0.2°C(±0.4°F) 42.1°C~43°C (107.8°F-109.4°F)±0.3°C (±0.6°F)
<b>Memory</b>	Automatically stores up to 32 readings.
<b>Tone</b>	One beep will sound when changing modes. One beep will sound indicating results. Thermometer beeps once for each memory recall and when unit automatically turns off. Device does NOT beep when in Night Mode.
<b>Operating</b>	50.0° F to 104.0° F (10.0° C to 40.0° C) with relative humidity up to 85% (non condensing)
<b>Storage Temperature</b>	-4.0° F to 131° F (-20.0° C to 55.0° C) with relative humidity up to 95% (non condensing)
<b>Shut-Off</b>	Powered-off automatically after every 30 seconds of non-use
<b>Battery</b>	2 X 1.5v alkaline AAA size
<b>Unit Dimensions</b>	5.1" (L) x 1.75" (W) x 2" (H) (130mm x 45mm x 55mm)
<b>Weight</b>	2.65 ounces (75 grams) without battery
<b>Accessories</b>	Instruction Manual, two AAA size batteries

Specifications are subject to change without notice.

## ELECTROMAGNETIC COMPATIBILITY

Table 1 EMISSIONS

### Guidance and manufacturer's declaration - electromagnetic emissions

The JXB-183 Non-contact Infrared Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the JXB-183 Non-contact Infrared Thermometer should assure that it is used in such an environment.

Emissions Test	Compliance	Electromagnetic Environment Guidance
RF emissions CISPR 11	Group 1	The JXB-183 Non-contact Infrared 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.
RF emissions CISPR 11	Group B	The JXB-183 Non-contact Infrared Thermometer 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 and flicker emissions IEC 61000-3-3	Not Applicable	

## ELECTROMAGNETIC COMPATIBILITY

Table 2 EMISSIONS

### Guidance and manufacturer's declaration - electromagnetic immunity

The JXB-183 Non-contact Infrared Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the JXB-183 Non-contact Infrared Thermometer should assure that it is used in such an environment.

Emissions Test	IEC 60601 test level	Compliance level	Electromagnetic Environment Guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

Table 3 EMISSIONS

### Guidance and manufacturer's declaration - electromagnetic immunity

The JXB-183 Non-contact Infrared Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the JXB-183 Non-contact Infrared Thermometer should assure that it is used in such an environment.

Emissions Test	IEC 60601 test level	Compliance level	Electromagnetic Environment Guidance
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2,5 GHz	3 V/m	Portable and mobile RF communications equipment should be used no closer to any part of the JXB-183 Non-contact Infrared 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 metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, <sup>a</sup> should be less than the compliance level in each frequency range. <sup>b</sup> Interference may occur in the vicinity of equipment marked with the following symbol:

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.

- a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot 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 JXB-183 IR Thermometer is used exceeds the applicable RF compliance level above, the JXB-183 IR Thermometer should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the JXB-183 IR Thermometer.
- b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Table 4 EMISSIONS

### Recommended separation distances between portable and mobile RF communications equipment and the JXB-183 Non-contact Infrared Thermometer

The JXB-183 Non-contact Infrared Thermometer is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the JXB-183 Non-contact Infrared Thermometer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the JXB-183 Non-contact Infrared 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 2.7 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

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (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.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for 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

## FCC STATEMENT

IMPORTANT INFORMATION REQUIRED BY THE FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference; and (2) this device must accept any interference received, including interference that may cause undesirable operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## THREE-YEAR LIMITED WARRANTY

The warrantor guarantees that its Non-Contact Infrared Thermometer will be free from manufacturing defects for a period of three years from the date of purchase. This warranty does not cover batteries or other power sources that may be provided with or used with the Non-Contact Infrared Thermometer. This warranty is voided if the Non-Contact Infrared Thermometer is misused or abused in any manner.

If the Non-Contact Infrared Thermometer fails to operate during the time the original purchaser owns it, return it postage prepaid to: **Attn: Repair Department, 1175 Lakeside Drive, Gurnee, IL, 60031.** When returning a product, please also include your name, address, phone number and brief description of the specific problem with your unit. Take care to carefully package the product to avoid any damage that may occur while in transit; shipping insurance with returned receipt is recommended. The warrantor will repair or replace the defective unit at our option. Repair or replacement of the defective unit, at the warrantor's option, is the sole remedy under this warranty.

ANY IMPLIED WARRANTIES WHICH THE PURCHASER MAY HAVE ARE LIMITED IN DURATION TO THE TIME THAT THE ORIGINAL CONSUMER PURCHASER OWNS THE PRODUCT. Some states do not allow limitations or how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty constitutes the warrantor's only reasonability and obligation to repair and/or replace materials or components, or refund the purchase price. The warrantor will not be responsible for any indirect, incidental, special consequential or punitive damages or other loss, including, but not limited to damage to or loss of other property or liable to the purchaser for any amount in excess of the cost of repair and/or replacement of the unit, or the purchaser for any amount in excess of the cost of repair and/or replacement of the unit, or the purchase price of the unit. Some states do not allow the exclusive or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**Toll-Free Customer Care Help Line:**  
**1-866-326-1313**  
**Monday – Friday 8:30 a.m. – 4:30 p.m. CST**



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