



Insta-Therm™

Quick-Scan Thermometer

Ear • Forehead

Instructions



016-670

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Introduction

Dear Customer,

Thank you for purchasing your new Physio Logic® Insta-Therm™ Quick-Scan Thermometer. This thermometer's innovative design offers 2 convenient and accurate ways to measure body temperature instantly. What's more, its colour-coded screen light alerts you of a fever (orange) or lets you know that the reading is normal (green) when in poor lighting conditions.

Speed:

- Advanced technology allows for instant digital readings in less than 1 second.

Accurate:

- Proven clinical accuracy for readings you can trust.

Comfortable:

- Modern and versatile compact design makes taking temperature readings easier.

Hygienic:

- Easy to clean.

Convenient:

- Requires no probe covers!
- Innovative design allows for choice of 2 body temperature measuring options: Ear and Forehead.
- Memory stores last 10 readings.

User Friendly:

- One-button easy operation and large easy-to-read 3-digit LCD give convenience at the touch of a finger.

In order to obtain accurate readings make sure to read this instruction manual thoroughly before using. Keep it handy for future reference.

About body temperature

Several factors can affect normal body temperature. It fluctuates throughout the day; being generally lower in the morning and higher during the afternoon. Also as we age, our normal body temperature tends to decrease slightly (see table below for reference). Different parts of human body also have different temperatures: generally, ear temperature is close to oral temperature but higher than underarm temperature.

Body temperature average per age

Age	0-2	3-10	11-65	+65
°C	36.4 - 38.0	36.1 - 37.8	35.9 - 37.6	35.8 - 37.5
°F	97.5 - 100.4	97.0 - 100.4	96.6 - 99.7	96.4 - 99.5

Body temperature is controlled by the hypothalamus. The blood flowing through the hypothalamus also flows through the eardrum in the middle ear. For this reason, taking a temperature reading in the ear can give a good estimation of body temperature.

The Physio Logic Insta-Therm Quick-Scan Thermometer uses infrared technology, which allows detection of the energy emitted from the eardrum and its surrounding tissue and conversion of the energy into a temperature reading.

Normal body temperature is different from person to person. Knowing this temperature can be important for future situations. Use your Physio Logic Insta-Therm Quick-Scan Thermometer to take a normal temperature reading of you and each member of your family and write it down on the last page of this booklet for future reference.

Important notes

- This thermometer is designed for taking temperature readings from the ear and forehead only. DO NOT use it for measuring rectal, oral or underarm temperature.
- This thermometer is calibrated and ready to use.
- This thermometer does not require probe covers.
- The thermometer body is NOT waterproof, only the infrared probe is. Direct contact of the body with water or other liquids must be avoided.
- A low battery symbol (⌚) indicates that the battery needs to be replaced.
- This thermometer is a delicate electronic device. Please handle with care.
- Do not expose the thermometer to direct sunlight.
- Store at normal room temperature and humidity.

Safety notes

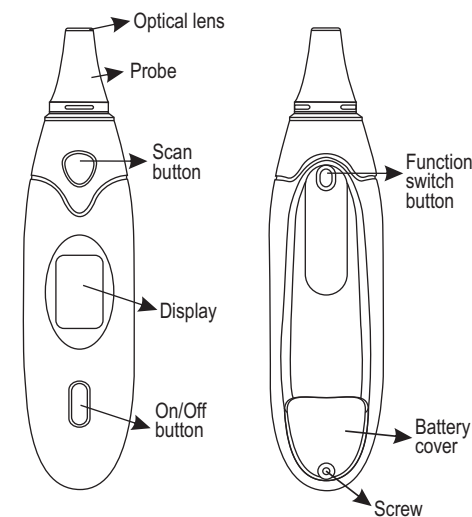
- Please read the entire instruction manual before using this thermometer. Proper measuring technique is crucial to achieving accurate readings. Improper use will affect results.
- Earwax and other obstructions will affect the accuracy of the readings. Before using, ensure that the optical lens is clean. If it is covered by earwax, wipe it with a cotton swab. If desired, moisten the swab with alcohol. If alcohol is used, wait 5 minutes after cleaning the lens before taking a reading.
- Do not use the thermometer if the ambient temperature is below 10°C (50°F) or above 40°C (104°F).
- Do not use the thermometer if the ambient humidity is higher than 95%RH.

- Do not use the thermometer if the ear canal is wet or if the person is suffering from an ear disease.
- Do not apply force when inserting the probe into ear canal.
- This thermometer is intended for household use only. Use of this thermometer is not intended as a substitute for physician's consultation.

Recommendation

- Wait at least 30 minutes after eating, exercising or bathing before taking a temperature reading.

Exterior appearance and functions



Operating Instructions

- 1- Make sure that the optical lens is clean. (see safety notes)
- 2- Press the On/Off button to turn the power on. The display will show all screen icons and will emit a "beep". When the symbol "🔊" appears, the thermometer is ready to take a reading.
- 3- To change the reading mode, press the function switch button and hold it for 3 seconds. The "🔊" symbol indicates that the thermometer is now in forehead mode. To switch back to ear mode, press the function switch button again and hold it for 3 seconds (the "🔊" will disappear).

To measure temperature in forehead mode

- 1- Ensure that the forehead mode is active ("🔊").
- 2- Place the probe at temple level leaving 1 cm between the probe and the skin.
- 3- Press the scan button. A "beep" will indicate that the measurement is complete. The temperature will appear on the display.

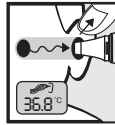
Since forehead temperature is lower than ear temperature and it is easily influenced by ambient temperature, we recommend to also measure the ear temperature when the result is higher than 37°C in forehead mode.

To measure temperature in ear mode

- 1- Ensure the ear mode is active ("👂").
- 2- Gently pull on the top of the ear to straighten the ear canal.
This will give the thermometer a clear path to the eardrum
(for children under 1 year old, see note below).



Incorrect



Correct

Note : For children under 1 year old

Pull the ear straight back instead of pulling it up.



(While tugging the ear, fit the probe snugly into the ear canal, as deep as possible.)

- 3- Press the scan button. Do not move the unit before a "beep" is heard.
- 4- After the "beep", remove the thermometer carefully from the ear canal. The temperature value will appear on the display.

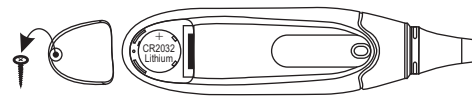
Error messages

LCD	Comments
	The temperature is higher than 50°C.
	The temperature is lower than 0°C.
	The ambient temperature is higher than 40°C.
	The ambient temperature is lower than 10°C.
	The battery running with low charge. Please replace the battery.
	Check if the unit is turned on or if the battery has been loaded properly.

To replace the battery

When the low battery (🔋) symbol appears, it is time to replace the old battery with a new one.

- 1- Use a new lithium battery, type CR2032 or equivalent.
- 2- Take out the screw and remove the battery cover
- 3- Remove the old battery.
- 4- Place the new battery, making sure the + side is up.
- 5- Replace the battery cover and secure with the screw.



Symbols description

LCD	Description
	All icons are displayed. The unit has been turned on.
	Ready for ear readings. The icon "👂" indicates that the unit is in ear thermometer mode.
	Ready for forehead reading. The icons "👂" and "👤" indicate that the unit is in forehead thermometer mode.
	The thermometer is taking readings.
	The reading is ready. The unit is reporting the last reading value and it is also ready for the next reading.
	Low battery. The battery should be replaced.

Care and cleaning

Clean the uniquely-designed waterproof probe with a soft, alcohol-moistened cloth after each use.

Clean the body of the ear thermometer with a soft, dry cloth.
DO NOT RINSE THE THERMOMETER BODY WITH FLUIDS.

Never use an abrasive cleanser or submerge the body of the ear thermometer in water or other liquids.

Technical specifications

<i>Model:</i>	Physio Logic Insta-Therm Quick-Scan Thermometer (016-670)
<i>Sensor type:</i>	Thermopile
<i>Display temperature range:</i>	Between 0°C and 50°C (32°F and 122°F)
<i>Operating ambient temperature range:</i>	Between 10°C and 40°C (50°F and 104°F)
<i>Operating ambient humidity range:</i>	0-95% RH
<i>Memory:</i>	Memorizes last 10 readings
<i>Battery type:</i>	CR2032 Lithium cell (x1)
<i>Battery life:</i>	5,000 measurements or 2 years.
<i>Automatic switch off:</i>	1 minute after last use
<i>Weight:</i>	30g (including battery)
<i>Standard:</i>	Complies with CE and ASTM requirements
<i>CE Medical device:</i>	Class IIa

Caution

Do not expose the thermometer to extreme temperature, very high humidity, or direct sunlight. Avoid extreme shock. Do not drop the thermometer.

Do not touch the probe tip with fingers. Do not disassemble the thermometer.

Troubleshooting

1. Consistently low temperature readings :

- The waterproof lens is dirty.
 - Thoroughly clean the lens with a soft, alcohol-moistened cotton cloth.
- The probe is not positioned properly in the ear canal (if used in ear mode).
 - Verify that the ear mode icon is visible.
 - The tip of the probe must be fully seated against the opening of ear canal. Failure to properly position the probe may lead to a low temperature reading.

2. Temperature reading is reported with an "out of range" message (HI, LO, AH or LH).

- Verify that you are using the correct reading mode (ear or forehead).
- Scanning sequences are not operated in the ear canal (if being used in ear mode).
 - This may occur if you press the scan button before placing the thermometer in the ear while the ambient temperature is not within the measuring range (see "technical specifications").
- If operating in forehead mode, ensure that the probe is not too far or too close from the skin (1cm is recommended).

To recall memory

- Press the On/Off button to turn the unit on.
- Press the On/Off button again.
- The display will show the number 1 and then the value of the last reading.
- Press the On/Off button again. The display will show the number 2 and then the value of the previous reading.
- Repeat the same process described above to view your last 10 readings.
- Each time that a new reading is taken, the oldest value in memory is deleted and the new one is kept in memory.

To change temperature scale

- Press the On/Off button to turn the unit on.
- Press the On/Off button again and hold. While holding, press the scan button once. The scale icon will switch from °C to °F. Press the scan button again to return to the previous scale. After selecting the desired scale, release the On/Off button.

Fever alarm

- When the temperature detected is above 38°C (100.4°F), the LCD will be illuminated in orange colour to indicate fever. Otherwise, the screen colour remains green.

Your normal temperature readings

Family member	Reading	Date

Warranty

Thank you for purchasing the Physio Logic® Insta-Therm™ Quick-Scan thermometer. This product is warranted to be free from defects in material and workmanship for a period of one year of normal use from the date of purchase. This warranty does not cover damages resulting from abusive or improper use and applies to covered by this warranty. All claims must be accompanied by the original bill of sale.



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