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iHealth

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Termometro a infrarossi senza contatto (PT2L)

Body temperature

- Body temperature has approximately from 35.5°C/95.9°F (95.9°F to 100°F). To determine if you have a fever, compare the temperature detected with the person's normal temperature rise over the reference body temperature (1°C/1°F) or more is generally an indication of fever.
- Different measurement sites (rectal, axillary, oral, frontal, auricular) will give different readings. Therefore, it is wrong to compare the measurement taken from different sites.
- Mechanical shock
- Manufacturer defined sealed or damaged infrared optical components
- ASTM Laboratory accuracy requirements in the display range of 37.5 to 42.0 °C (99.5 to 107.6 °F) for the thermometer is ±0.2 °C (±0.4 °F), whereas for mercury glass and electronic thermometers, the requirement per ASTM Standards E667-86 and E1112-86 is ± 0.1 °C

Rectal	97.9°F-99.1°F	36.6°C to 36°C
Axillary	96.9°F-99.1°F	34.7°C to 37.2°C
Oral	96.9°F-99.5°F	35.5°C to 37.0°C
Auricular	96.4°F-100.4°F	35.8°C to 38°C

Care and Cleaning

- The probe (lens) is the most intricate part of the thermometer and should be kept clean and intact to acquire accurate readings.
- 1. Gently wipe the surface of the probe using a cotton bud soaked in 95% medical alcohol.
- 2. Allow at least 1 minute for the probe to fully dry.
- 2. If the probe (lens) is broken, please contact customer services.
- 3. Use a piece of soft, dry cloth to clean the display screen and external surface of the thermometer. If the thermometer is very dirty, the cloth can be moistened with some medical alcohol to clean the device.
- 4. The product is not waterproof. Do not clean the device with detergent. Do not soak the thermometer in water or other liquids.

Maintenance

- This company has not authorized any agency or individual to carry out product repairs or maintenance. Do not attempt to disassemble or modify the thermometer if you suspect functional issues with the device.
- The IR thermometer is an extremely precise instrument. Any improper maintenance, disassembly, or modification may lead to inaccuracies of the product measurements.
- Please check the device if damaged after it is dropped. If unusable, please contact customer services for having the device checked.
- The thermometer is initially calibrated at the final manufacture. If the thermometer is used according to the use instruction, periodic adjustment is not required. If any time you question the accuracy of measurement during the warranty period, please contact customer services.
- No component can be maintained by eye in the monitor circuit diagram, component part lists, descriptions, calibration instructions, or other information which will assist the user's appropriately qualified technical personnel to repair those parts of equipment which are designated repaired or replaced can be applied.
- The method for verifying the clinical accuracy can be requested, please contact customer services.
- The device must not be stored or used at an excessively high or low temperature or humidity (see technical data), in sunlight, in association with an electrical current or in dusty locations. Avoid dropping or subjecting the product to external forces. Otherwise its accuracy can occur.
- Do not directly touch the probe with your fingers or other items. Measurements taken using a damaged or dirty IR probe may be inaccurate.
- The monitor requires 4 hours a day from the minimum storage temperature between uses until the monitor is ready for its INTENDED USE when the ambient temperature is 20°C (68°F).

Product introduction

- Thank you for choosing our product.
- This product is a high-tech infrared (IR) thermometer designed to take human body temperature by measuring the energy of IR emitted from the forehead. The product helps you to assess you and your family member health conditions easily and quickly.
- Product Name: InHealth Digital No-Touch Thermometer
- Product Model: PT2L

NOTICE

- 1. Use of this thermometer is not intended as a substitute for consultation with your physician. Please consult your doctor if you have any doubt after the temperature reading.
- 2. Keep the thermometer out of reach of children, for accidental swallowing of the battery or other components, please contact emergency services immediately.
- 3. Batteries must not be thrown into an open fire or short circuit.
- 4. Thermometer readings should be regarded as a reference. Do not attempt self-diagnosis or self-treatment using the temperature readings. Please seek professional medical advice when necessary.
- 5. There is no absolute standard for human body temperature.
- 6. Knowing your own normal body temperature range is important to accurately determine if you have a fever.
- 6. Make sure that the forehead of the subject is free from sweat, cosmetics, dirt or grease before measuring.
- 7. Patients should not drink, eat, or be physically active before while taking a reading. Wait 30 minutes before taking a measurement.
- 8. Temperature readings taken when a body is in a state of stable equilibrium is more accurate and useful as a reference.
- 8. Do not take temperature measurement over nose tissue, open sores or abrasions.
- 9. If there is a temperature difference between the thermometer storage area and the new ambient environment around the subject, please let the thermometer sit in the new environment for 30 minutes before taking the measurement.
- 10. Do not measure temperature immediately after consuming a drug that causes body temperature. Temperature readings taken at this time will not be accurate.
- 11. It is normal for readings taken from continuous measurements to fluctuate within a small range. During continuous measurements, the subject's body temperature may be transferred to the thermometer, affecting measurement accuracy. We recommend waiting only up to 3 continuous readings within a short period.
- 12. Do not directly face the sun or an air outlet of an air conditioning or radiator device during the measurement. This will cause changes to the forehead temperature. Measurements should be taken in a stable environment where possible.
- 13. Do not measure body temperature in an environment with strong EM interference (examples include places close to a working microwave, induction cooker, or cellphone) as well as EM interference may cause error in the reading or even device failure.
- 14. This product should be considered a personal device. Clean and maintain the product properly to prevent cross-contamination.
- 15. If performance of the instrument may be adversely affected should use one or more of the following:
 - 1) Operation outside of the manufacturer-specified subject temperature range.
 - 2) Operation outside of the manufacturer-specified operating temperature and humidity range.
 - 3) Storage outside of the manufacturer-specified ambient temperature and humidity ranges.
 - 4) Mechanical shock
 - 5) Manufacturer defined sealed or damaged infrared optical components
 - 15. ASTM Laboratory accuracy requirements in the display range of 37.5 to 42.0 °C (99.5 to 107.6 °F) for the thermometer is ±0.2 °C (±0.4 °F), whereas for mercury glass and electronic thermometers, the requirement per ASTM Standards E667-86 and E1112-86 is ± 0.1 °C

- 10. The monitor requires 4 hours a day from the maximum storage temperature between uses until the monitor is ready for its INTENDED USE when the ambient temperature is 20°C (68°F).

- Included in delivery
- Use only accessories provided by the original manufacturer, and check for any missing accessories.
- 1 InHealth Digital No-Touch Thermometer
- 2 1.5V AAA batteries

Signs and symbols

- The following symbols appear in this instruction for use and on the device:

Symbol for "THE OPERATION GUIDE MUST BE READ"
(The sign background color: blue. The sign graphical symbol: white.)

Symbol for "ENVIRONMENT PROTECTION"
Waste electrical products should not be disposed of with household waste. Please recycle these facilities and. Check with your local Authority or retailer for recycling advice.

Symbol for "MANUFACTURER"
The symbol is used to identify the manufacturer of the product.

Symbol for "CAUTION"
The symbol is used to identify the manufacturer of the product.

Symbol for "SERIAL NUMBER"
The symbol is used to identify the manufacturer of the product.

Symbol for "EUROPEAN REPRESENTATIVE"
The symbol is used to identify the manufacturer of the product.

IP22 The first characteristic numeral symbol for "Degrees of protection against access to hazardous parts and against solid foreign objects". The second characteristic numeral symbol for "Degrees of protection against ingress of water".

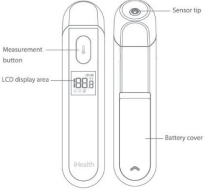
Symbol for "Application part, type IR"
The symbol is used to identify the manufacturer of the product.

Symbol for "COMPLIES WITH MD0091424EC REQUIREMENTS"
The symbol is used to identify the manufacturer of the product.

- OTHER STANDARDS AND COMPLIANCES
- This device complies with the EU Directive 93/42/EEC concerning medical devices (CE 06921-1). Medical electrical equipment - Part 1: General requirements for basic safety and essential performance; IEC 60601-1-2 (Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Colloquial standard: Electromagnetic compatibility - Requirements and Tests, IEC 60601-1-11 (Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Colloquial standard: Requirements for non-ionizing electrical equipment and medical electrical systems used in the home healthcare environment); the ASTM (American Society for Testing and Materials) 1965-18, ISO 80601-2-62 (Medical Electrical Equipment - Part 2-62: Particular Requirements For The Basic Safety And Essential Performance Of Clinical Thermometers for body temperature measurements). Please note that portable and mobile measurement systems must comply with this.
- This infrared thermometer meets requirements established in ASTM Standard (E1985-98) except of clause 5.2.2. It's display range is 34.0 °C-43.0°C (93.2°F-109.4°F). The full responsibility for the conformance of this product to the standard is assumed by manufacturer.

- 16. Users are allergic to plastic/rubber, please don't use this device.
- 17. The materials of expected contact with patient have passed the ISO 10993-5 & ISO 10993-10 standards test without toxicity, allergy and irritation markers. They are in compliance with the MDD requirements. Based on the current science and technology, other potential allergic reactions are unknown.
- 18. The patient is an intended operator.
- 19. This thermometer has been tested and found to comply with the limits for a Class B 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 therefore it can cause interference with the receiving antennas. However, there is no guarantee that harmful 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.
- 20. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device must not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- 21. Forehead temperature readings on this device are equivalent to oral readings.

Overall Description
The instrument is mainly comprised of a plastic housing, IR temperature sensor, LCD display screen and batteries.



- 1 LCD screen instructions
- 2 Low power reminder
- 3 Celsius/Fahrenheit
- 4 Temperature display area
- 5 Temperature state indication

Electromagnetic Compatibility Information

Phenomenon	Compliance	Electromagnetic Immunity
Conducted and radiated RF emissions	CSPR 11 Group 1, Class B	The device is intended to be used in home healthcare environment
Harmonic distortion	IEC 61000-3-2 NA	The device is powered by battery
Voltage fluctuation and flicker	IEC 61000-3-3 NA	The device is powered by battery

Table 2 - Enclosure Port

Phenomenon	Basic EMC standard	Immunity test levels
Electrostatic	IEC 61000-4-2	Home healthcare Environment
Electromagnetic Discharge	+18 kV contact discharge +2kV, ±4kV, ±8kV, ±15kV air discharge	
Radiated RF EM field	IEC 61000-4-3	80MHz-2.7GHz 80% AM at 10kHz Refer to table 3
Proximity fields from RF wireless communications equipment	IEC 61000-4-3	
Rated power frequency magnetic fields	IEC 61000-4-8	50Hz or 60Hz

Table 3 - Proximity fields from RF wireless communications equipment

Test frequency	Band (MHz)	Immunity test levels
93.75-385	FM/AM	Professional healthcare facilities
385-1500	FM/AM	Medical equipment 10Hz, 27Hz
430-430.470	FM, 154KHz deviation, 164KHz sense, 28Vrms	
710-730	Pulse modulation 27Hz, 9Vrms	
740-740		
740-800	Pulse modulation 10Hz, 28Vrms	
830-830		
1120-1120	Pulse modulation 27Hz, 28Vrms	
1845-1845		
2400-2400	Pulse modulation 27Hz, 28Vrms	
3100-3100	Pulse modulation 27Hz, 9Vrms	
5785-5785		

Device dimensions: Approx 141mmx32mmx48mm
(5.55in x 1.26in x 1.89in)

Product weight: Approx 53 g (includ battery)

Product performance

- 1 Measurement position: Centre of the forehead surface
- 2 Forehead-to-sensor distance: ≥3 cm (1.18in)
- 3 Power source: DC 3V 2 x 1.5V 757 AAA batteries
- 4 Measurement range: 34.0°C/93.2°F-43.0°C/109.4°F
- 5 Measurement precision: ±0.2°C (±0.4°F) within 35.0°C-42.0°C (95°F-107.6°F)
- 6 Operating conditions:
 - Temperature: 15°C-40°C (59°F-104°F)
 - Humidity: <95%RH, non-condensing
 - Atmospheric Pressure: 700m-1060m
- 10 Temperature / storage conditions
- 11 Measurement units: Celsius (°C) or Fahrenheit (°F)
- 6 Resolution 0.1°C (0.1°F)
- 8 Initial repeatability: Within 0.3°C (±0.5°F)
- 9 Operating conditions:
 - Temperature: 15°C-40°C (59°F-104°F)
 - Humidity: <95%RH, non-condensing
 - Atmospheric Pressure: 700m-1060m
- 11 Display: LCD display
- 12 Operation: Forehead mode (Adjusted mode, reference body site)
- 13 Expected service life: 5 years
- 14 Internal battery: 2 x AAA batteries, last for at least 5 seconds.
- 15 Battery life: Approx 3000 times measurements

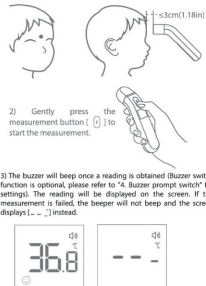
Intended use

The Infrared Digital No-Touch Thermometer is intended for the intermittent measurement of body temperature from central forehead skin surface on people of all ages. It can be used by consumers in the household environment and by healthcare providers.

Contraindications
It is not recommended for people whose measuring part has local lesions, such as inflammation, trauma, postoperative, etc.

Instruction for Use

- 1 Installing the product
- Insert the two batteries into the battery compartment at the back of the device. The thermometer will initiate a self-check, LCD displaying the battery status. Then, keep open and power off the device if the LCD displays "C" or "F" appears alternately on the screen.
- 2 Measurement process
- 1) Aim the thermometer probe at the centre of the forehead and keep steady. Please ensure that the forehead is the forehead (the optimal distance is about the width of an adult's index finger). Do not touch the forehead with the probe.
- 2) When the power off state, press and hold the measurement button until the buzzer "beep" * appears, buzzer function open.
- 3) Release the button when "C" appears, buzzer function close.
- 4) After setting the buzzer prompt switch, the screen displays the current temperature unit, and automatically shuts down in 4s.
- 3 Unit switching
- 1) After setting the buzzer prompt switch in 4. above, the LCD display the current temperature unit. Press and hold the button immediately after the unit settings state. At this point, the unit symbol of "C" and "F" appear alternately on the screen.
- 2) Release the button when "C" appears, buzzer function open.
- 3) Release the button when "F" appears, buzzer function close.
- 4) After setting the buzzer prompt switch, the screen displays the current temperature unit, and automatically shuts down in 4s.
- 4 Indication of temperature status
- 1) When the measured temperature <37.5°C (99.5°F), "C" appears on the LCD.
- 2) When the measured temperature 37.5°C-43.0°C (99.5°F-107.6°F), "C" appears on the LCD.
- 3) When the measured temperature >38.0°C (100.4°F), "F" appears on the LCD.



2) Gently press on the measurement button (C/F) to start the measurement.

3) The buzzer will beep once a reading is obtained (buzzer switch function is optional, please refer to "4. buzzer prompt switch" for settings). The reading will be displayed on the screen. If the measurement is failed, the buzzer will not beep and the screen displays "..." instead.

3) Power Off
If no power measuring is required, simply let the device sit for 8 seconds or power off - automatically.

4) Buzzer Prompt Switch
1) Under the power off state, press and hold the measurement button until the buzzer "beep" * appears alternately on the screen.

5) Release the button when "C" appears, buzzer function open.

6) Release the button when "F" appears, buzzer function close.

7) After setting the buzzer prompt switch, the screen displays the current temperature unit, and automatically shuts down in 4s.

8) Unit switching
1) After setting the buzzer prompt switch in 4. above, the LCD display the current temperature unit. Press and hold the button immediately after the unit settings state. At this point, the unit symbol of "C" and "F" appear alternately on the screen.

9) Release the button when "C" appears, buzzer function open.

10) Release the button when "F" appears, buzzer function close.

11) After setting the buzzer prompt switch, the screen displays the current temperature unit, and automatically shuts down in 4s.

WARNING

- Please contact your dealer or the device center in case of a claim under the warranty. If you have to send in the unit, enclose a copy of your receipt with your statement of defect description.
- The warranty terms are as follows:
 - 1. The warranty period for this device is one year from date of delivery in the case of a warranty claim, the date of delivery has to be proven by means of the sales receipt or invoice.
 - 2. Repairs under warranty do not extend the warranty period.
 - 3. The following cases are excluded under the warranty period:
 - All damage which has arisen due to improper treatment, e.g. nonobservance of the user instruction.
 - All damage which is due to repairs or tampering by the customer or unauthorized third parties.
 - Damage which has arisen during transport from the manufacturer to the consumer or during transport to the service center.
 - Accessories which are subject to normal wear and tear.
 - Liability for direct or indirect consequential losses due the unit is excluded even if the damage to the unit is accepted as a warranty claim.

Distributed by: USA: Health Labs, Inc. www.healthlabs.com

Europe: European Health Europe SAS www.healthlabs.eu

36 Rue de Ponthieu, 75008, Paris, France

EC REP: Health Labs Europe SAS 36 Rue de Ponthieu, 75008, Paris, France

ANDON HEALTH CO. LTD. 33 Jiaoping Street, W. Road, Nanhai District, Tianjin 300190, China

Factory: ANDON MEDICAL CO. LTD. Address: No. 26 Nanhu Road, Pilot Free Trade Zone, Tianjin, China

Made in China

Date of issue: May 28, 2020