Infrared Ear/ Forehead Thermometer

TS53 #

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Importer

Distributor

INSTRUCTION MANUAL

Please read this instruction manual carefully before using your forehead thermometer

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Introduction

Intended Use

This thermometer is intended for home use and the measurement of human body temperature in people of all ages. This thermometer takes temperatures in seconds by measuring the heat generated by the ear canal/ on the forehead.

Type of Use/ Reuse

Multiple patient multiple use

Intended User

The Patient is an intended operator.

Patient selection criteria: Handicapped persons and children are the exception of handicapped persons and children need assistance by another person to use the device.

Important Information before Use

When using this product, please be sure to follow all the notes listed below. Any action against these notices may cause injury or affect the accuracy.

1. Do not disassemble, repair, or remodel the thermometer.

2. Be sure to clean the thermometer lens each time after usage.

3. Avoid direct finger contact with the lens.

4. WARNING: No modification of this equipment is allowed.

5. It is recommended that user may take 3 temperatures. If they are different, use the highest reading.

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

7. Avoid extreme shock or dropping the device.

8. Before the measurement, patients and thermometer should stay in steady state room condition for at least 30 minutes.

9. Avoid measuring temperature in 30 minutes after exercise, bathing, or returning from outdoor.

10. To protect the environment, dispose of empty batteries at appropriate collection sites according to national or local regulations.

11. Please use the thermometer solely for its intended purpose.

12. There are no absolute body temperature standards. Keep reliable records of your personal temperature to serve as a reference for judging a fever.

13. Under any circumstances, the temperature taking result is ONLY for reference. Before taking any medical action, please consult your physician.

14. It is recommended calibrate the device every 2 year.

15. <u>L</u>CAUTION - Avoid potential allergic reactions, please avoid the front of scanner in direct contact to patient's wound.

16. <u>CAUTION - Please keep this device away from pets, pests, and children.</u>

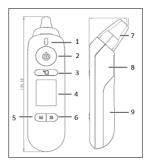
17. ZAUTION: Please keep away from children and pets, because small parts may be inhaled or swallowed.

18. If any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user is established.

19. If you would require any assistance during setting up, using or maintaining, please contact the manufacturer.

20. Avoid using the device near an operating cell phone or microwave oven.

Product Identification



- 1 LED status indicator (temperature indicator)
- 2 Power/Ear Measure button
- 3 Forehead button
- 4 Lens/ LCD Display
- 5 Memory button
- 6 SET button
- 7 Probe
- 8 Bottom Case
- 9 Battery Compartment Lid

Description of LCD Display

1	(8-38	Date
2	88:88	Time
3	a	Measurement in progress
4	Ĵ	Temperatuer unit °C
5	۴	Temperatuer unit °F
6	3888	Degree of temperature
7	∎<()))	Sound symbol
8		Low battery symbol
9	M 38	Memory symbol and sets of records
10	Ê	Object measurement
11	3	Ear measurement
12	<i>"</i> ```	Forehead measurement

Measuring Body Temperature in the Ear

- 1. Remove the front cover.
- 2. Press the Power/Measure button for 1 second to switch the thermometer on. All screen data will display on screen. Then the measurement mode flashes on screen. If the icon shows forehead mode, please press Power/Measure button again to change to ear mode. Then wait for 2 beep sounds to let you know the appliance is ready and followed by last temperature reading.
- 3. Make sure that the sensor tip and also the ear canal are clean. As the ear canal is slightly curved, you have to pull the ear slightly up and backwards before inserting the sensor tip. This is important so that the sensor tip can be pointed directly at the eardrum.
- 4. Insert the sensor tip carefully and press the Power button for 1 second.
- 5. The end of the measuring time is signaled with beep sound and the measured value appears on the display.

Measuring Body Temperature on the Forehead

- 1. The cap should be in position on the probe nozzle.
- Press the Power/Measure button. All screen data will display on screen. Then the measurement mode flashes on screen. If the icon shows ear mode, please press the Power/Measure button again to change to forehead mode. Then wait for 2 beep sounds to let you know the appliance is ready and followed by last temperature reading.
- 3. When the beep sounds to let you know the appliance is ready, press the Power/Measure button and maintain pressure.
- 4. Place the probe on your temple. Slide the probe across your forehead to the other temple, and then release pressure on button to stop temperature taking. You' Il hear a beep and your temperature will come up on the screen.
- **Note:** Forehead temperature may be affected by external climatic conditions. If in doubt, do not hesitate to take your ear temperature.

Setting °C/°F and Date/Time

You can configure the following basic settings for the multi-function thermometer: temperature unit (Celsius / Fahrenheit), date, time and Bluetooth®.

- (1) To switch on the device press the ON / OFF / MEASURE button.
- (2) Press the S button for five seconds.
- (3) The current set temperature unit appears on the display.
- (4) Using the S button select the temperature unit (°F or °C). Confirm by pressing the M button.
- (5) The time format will appear on the display. Select the time format (12 hour or 24 hour) using the S button. Confirm by pressing the M button.
- (6) The year display will flash on the display. Using the S button select the current year. Confirm by pressing the M button.
- (7) The month display will flash on the display. Using the S button select the current month. Confirm by pressing the M button.
- (8) The day display will flash on the display. Using the S button select the current day. Confirm by pressing the M button.

Note: If the 12-hour time format has been configured, the positions for the month and day will be reversed.

- (9) The hour display will flash on the display. Using the S button select the current hour. Confirm by pressing the M button.
- (10) The minute display will flash on the display. Using the S button select the current minute. Confirm by pressing the M button.
- (11) If no button is pressed within 30 seconds, the basic settings menu will automatically close.
- (12) Bluetooth® will flash on the display. Activate or deactivate Bluetooth® using the S button (ON will appear on the display for activation, OFF will appear on the display for deactivation). Confirm by pressing the M button. The device will save the basic settings and switch off automatically.

Memory Function

Memory Recall:

You can recall up to 30 measurements currently stored in memory to share with your physician or trained healthcare professional.

- 1. When the device is on, press once briefly on the Memory Button, then pass it again to show the last measurement.
- 2. Press the M button. The last measured value will appear on the display.
- 3. If you have activated Bluetooth® data transfer, the data will be transferred after the measurement. The thermometer displays the symbol for Bluetooth® during transfer.

Memory Deletion:

Remove batteries, memory will be cleared.

NOTE:

All the readings will be cleared no matter record in Human Mode or Object Mode.

Battery Installation

When the batteries get weak, the battery warning symbol appears Let is still possible to measure temperature. The batteries must be replaced. When the battery symbol flashes and "Lo" appears in the display, the batteries must be replaced. If the batteries are too flat, then the thermometer will switch off automatically. NOTE:

• It is recommended to remove the batteries if the unit will not be used for an extended period of time.

• Please properly dispose of the batteries away from small children and heat.

• Batteries must be disposed of in accordance with local environmental and institutional policies.

• Do not use rechargeable batteries.

1. Open the battery case by sliding off the cover on the back of the unit.

2. Remove used battery.

3. Replace with 2 x 1.5V LR03(AAA) alkaline batteries in designated area. The larger part of the battery should be facing up. You should still be able to see the "+" sign when battery is installed.

4. Slide the cover back on. Unit is ready for immediate use

Dispose of used batteries in accordance with the applicable legal regulations. Never dispose of batteries in the normal household waste.

Cleaning and Disinfecting

For home use device disinfection, 75% Ethanol Isopropyl alcohol (available in the pharmacy) can be used.

• Probe and Tip

Clean the probe and tip with an75% Ethanol or Isopropyl alcohol before and after each measurement.

• Thermometer:

Use a soft, dry cloth to clean thermometer body. Never use abrasive cleaning agents, thinners or benzene for cleaning. Do not scratch the surface of the probe lens or the display. Do not expose the thermometer to extreme temperatures, humidity, direct sunlight, or shock.

Error Codes

When a malfunction or incorrect temperature measurement occurs, an error message will appear as described below.

LCD Display	Cause	Solution
ж,	The temperature measured	Operate the thermometer only between the specified
Lo	The temperature measured is lower than	temperature ranges. If necessary, clean the sensor tip. In the event of a repeated error message, contact your retailer or Customer Services.
Err	The operating temperature is not in the range $15^{\circ}C \sim 40^{\circ}C$ (59°E ~ 104°E)	Operate the thermometer only between the specified temperature ranges.

Technical Specification

- Range of Measurement : Human Body: 34°C – 43°C (93.2°F – 109.4°F)
- Measuring accuracy : Human Body: 34°C - 43°C (93.2°F - 109.4°F) ±0.2°C (0.4°F) Out of range ±0.3°C (0.5°F)
- Operating environment:
 15°C 40°C (59°F 104°F)
 15 95% R.H. (non-condensing)
 Atmospheric Pressure: 700~1060 hPa
- Storage/ Transportation environment : -25°C - 55°C (-13°F ~+131°F)
 15 - 95% R.H. (non-condensing)
 Atmospheric Pressure: 700~1060 hPa
- Display resolution : 0.1°C
- Power supply: 2 x 1.5V LR03(AAA) alkaline
- Auto switch-off in 60 seconds without operation
- · Memory: 30 sets
- Weight : approx. 62 g (without battery)
- Dimensions :

approx. 141 × 42 × 36 mm

- Typical Service Life : 3 years
- Battery Shelf Life : 5 years
- Battery Operation Time: About 90 minutes (Depends on different brand of batteries.)

EMC Tables

TS53 is intended for use in the electromagnetic environment specified				
below. The customer or the user of TS53 must make sure that it is used				
in such an enviror				
Guidance and ma	nufactu	irer s de	onal healthcare	ctromagnetic emissions HOME HEALTHCARE
Phenomenon			environment a)	
Conducted and	Ē	a)	invironment uj	CISPR 11
radiated RF MISSI		.)		Group 1 Class B
Harmonic distorti		Not appli	icable	
Voltage fluctuations and flickering		Not applicable		
a) The equipment is suitable for use in Home Health Environments and Professional Health Care Environments limited to patient rooms and respiratory treatment facilities in hospital or clinics. The more restrictive acceptance limits of Group 1 Class B (CISPR 11) have been considered and applied. The equipment is suitable for use in the mentioned environments when directly connected to the Public Mains Network. b) The test is not applicable in this environment unless the ME EQUIPMENT and ME SYSTEM used will be connected to the PUBLIC MAINS NETWORK and the power input is otherwise within the scope of the Basic EMC standard. Guidance and manufacturer's declaration - Electromagnetic immunity - Enclosure port Phenomenon Basic EMC Immunity test levels standard or Professional IHOME HEALTHCARE				
	test me		Professional healthcare facility environment	HOME HEALTHCARE ENVIRONMENT
ELECTROSTATIC DISCHARGE		000-4-2	± 8kV contac ± 2 kV, ±4kV	±, ±8 kV, ±15 kV air
Radiated RF EM fields		000-4-3	a)	10 V/m b) 80MHz - 2.7 GHz 80% AM at 1kHz
Proximity fields from RF wireless communications equipment	IEC 610	000-4-3	COMPLIANT NOTE: Further information about distances to be maintained between portable and mobile RF communications equipment (transmitters) and the TS53 can be	

		requested from supplier using the contact information provided in this manual. However, it is advisable to keep the electromechanical aerosol equipment at an adequate distance of, at least, 0.5 m from mobile phones or other RF communications transmitters to minimise possible interference.
RATED power frequency	IEC 61000-4-8	30 A/m c) 50 Hz or 60 Hz
magnetic fields.		50 HZ 01 00 HZ
 a) The equipment is suitable for use in Home Health Environments and Professional Health Care Environments limited to patient rooms and respiratory treatment facilities in hospital or clinics. The more restrictive IMMUNITY acceptance limits have been considered and applied. b) Before modulation is applied. c) This test level assumes a minimum distance of at least 15 cm between the ME EQUIPMENT or ME SYSTEM and sources of power frequency magnetic fields. 		

Explanation of Symbols

C E 2797	The CE marking with the Registration Number of the Notified Body. This denotes the compliance of European Medical Device Directive 93/42/EEC
MD	Medical Device
	Manufacturer
EC REP	Authorized representative in the European Community
~~	Date of manufacture (YYYY-MM-DD or YYYY-MM)
LOT	Batch code (YYMMWWWW)
SN	Serial number (YYMWWWXXXXX)
Ť	Keep dry
X	Temperature limit

<u></u>	Humidity limitation
	Atmospheric pressure limitation
\triangle	Caution
(Consult the instruction for use
X	Disposal information: Should you wish to dispose of the article, do so in accordance with current regulations. Details are available from your local authority. WEEE 2012/19/EU Directives
RoHS	This product fulfilling the requirements of the RoHS Directive 2011/65/EU.
REACH	This product fulfilling the requirements of the REACH Directive EC 1907/2006 and its amendments, do not contain Substances of Very High Concern in concentration above the limit of 0.1 %. No substance(s) is/are present in the parts of the product above the concentration of 0.1 % weight by weight.
U	Stand-by
Ŕ	Device classification type BF

IP 22	This product meets the basic safety and essential performance requirements indicated in the IP22 conditioning test (protection against solid foreign objects of 12.5mm \emptyset and greater and against vertically falling water drops when enclosure tiled up to 15°)
X	The empty, completely flat batteries must be disposed of through specially designated collection boxes, recycling points or electronics retailers. You are legally required to dispose of the batteries.
	Importer
	Distributor
#	Model Number
~~~	Country of Manufacturer
UDI	Unique Device Identifier

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