

Quall

QTF2010

QuallThermo

Non-contact Thermometer

CE 2696



USER MANUAL

UM-001, Rev. No: 3, Rev. Date: 22.05.2024
BUDI NO: 86830712QTF2010QL

Thank you for purchasing the QuallThermo.

READ CAREFULLY BEFORE USE!

The QuallThermo is a clinical, non-contact thermometer used for measuring the human body temperature of all ages.

Use of this thermometer is not intended as a substitute for consultation with your doctor. Conducting self-diagnosis based on the measurement results and/or treatment can be dangerous.

The device is designed for infants (0-3 months), children (3-36 months), and adults (36 months+) of all nationalities, sizes and weights. It can be used by patients and their relatives in the home environment, by staff in public areas, and by health professionals in clinics.

The device does not contain tissues, cells or derivatives of human or animal origin. The device does not contain any medical substances or biological materials. The device does not contain endocrine disruptors or any material that may cause sensitisation or allergic reaction in the user.

There is no disease for which the device is indicated. There are no contraindications arising from the device. The device has no side effects. The device is a diagnostic device used to measure and monitor body temperature without contact.

The device is not sold sterile.

A high or prolonged fever requires medical attention, especially for young children. Please consult your doctor.

WARNINGS!

Keep the device out of children's reach.

Contains small parts that present a choking hazard for infants.

DO NOT store this thermometer in temperatures below -20°C or over 50°C (below -4°F or over 122°F) or in excessive humidity (above 85% non-condensing humidity).

If thermometer is stored in a location that is cooler or warmer than where the measurement will be taken, allow it to adjust to the room temperature for 30 minutes before use.

Do not use the device to measure anything with a temperature higher than 90°C (194°F).

PRECAUTIONS

Do not use the device right after swimming, bathing, or physical exercise wait for 30 minutes before measuring.

NEVER insert a sharp object into any opening on the thermometer.

DO NOT drop the thermometer and protect it from severe impacts.

QuallThermo is NOT waterproof. Do not immerse the thermometer into water or other liquids and protect from spills.

For cleaning and disinfecting please follow the instructions in the "Cleaning" section.

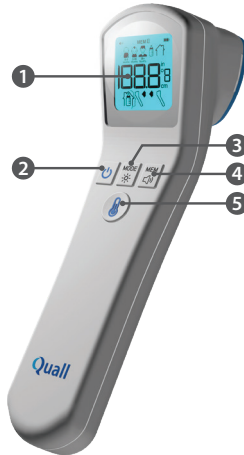
Do not touch the sensor with your finger or breathe on it.

Do not attempt to disassemble the device and/or repair it. The device can be repaired by authorized service centers only!

Portable and mobile HF communication systems may interfere with this device.

OVERVIEW

- 1- LCD Screen
- 2- Power Button
- 3- Mode / Backlight Button
- 4- Memory / Sound Control Button
- 5- Scan Button
- 6- Sensor
- 7- Protective Sensor Cap
- 8- Battery Compartment



How to use your QualiThermo

IMPORTANT! The thermometer and individual should be in the same ambient temperature for at least 30 minutes before measurement.

1. REMOVE PROTECTIVE CAP

2. POWER ON

The device can be powered on in 2 different ways:



a. By pressing and releasing the power button once: Backlight will light up and the start-up screen will be displayed. Move on to step 3.



b. By pressing and releasing the scan button once: This should be used to take forehead temperature only and the thermometer should be positioned approximately 2-3 cms. (1") away from the center of the forehead before pressing the scan button. Move on to step 6.

3. SELECT MODE



Press the MODE button to toggle through the modes until you select the icon of the mode you would like to use.



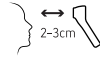
NOTE! The device will always start in the last forehead mode it was used in.

NOTE! The device will not give accurate results if the correct mode is not used (for example, using a forehead mode when taking the temperature of baby food).

4. POSITION



a. Forehead Measurement
Position the thermometer approximately 2-3 cms. (1") away from the center of the forehead.



b. Food&Liquid Measurement
Position the thermometer device approximately 2-3 cms. (1") away from the food or liquid. The thermometer must be pointed directly at the food or the liquid and not the sides of container.



c. Room Temperature
Just hold the thermometer in the air and the room temperature will be displayed continuously. Pressing or not pressing the scan button will not change the result.

How to use your QualiThermo

5. TAKE TEMPERATURE

When taking a forehead measurement hold the thermometer steady. When taking a food&liquid measurement hold the container steady.



Press and release the scan button once. The display will show an animation while it takes a reading.



NOTE! In the food & liquid mode, you can also keep the scan button pressed to measure the temperature of different parts of the food or liquid.

6. READ RESULT

Once the reading is complete, 3 short beeps will be heard and the appropriate temperature color will be displayed on screen.

	BLUE	GREEN	ORANGE	RED	CYAN
MODE	Low Temperature	Normal Temperature	Fever	High Fever	
0-3 Months	<35.8°C (<96.4°F)	≥35.8 – ≤37.4°C (≥96.4 – ≤99.4°F)	-	>37.4 °C (>99.4°F)	-
3-36 Months	<35.4 °C (<95.7°F)	≥35.4 – ≤37.6°C (≥95.7 – ≤99.6°F)	>37.6 – ≤38.5°C (>99.6 – ≤101.3°F)	>38.5 °C (>101.3°F)	-
36+ Months	<35.4°C (<95.7°F)	≥35.4 – ≤37.7°C (≥95.7 – ≤99.9°F)	>37.7 – ≤39.4°C (>99.9 – ≤103.0°F)	>39.4 °C (>103.0°F)	-
Food & Liquid	-	-	-	-	✓
Room	-	-	-	-	✓

NOTE: When taking a forehead measurement, the device will emit 3 long beeps for fever or high fever alert.

How to use your QualiThermo

7. TURN OFF



Press the power button to turn off the device. If you leave the device on, it will shut down automatically after 30 seconds.

TURNING THE SOUND OFF



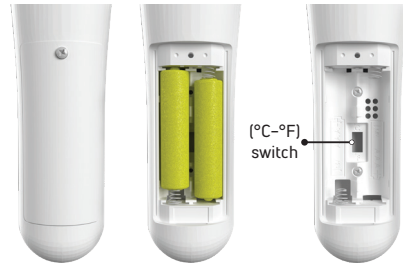
QualiThermo allows you to turn the sound off while taking the temperature of a sleeping child. To turn the sound off, PRESS and HOLD the Memory / Sound Control button. Sound off icon will appear on the screen. Repeat the same to turn the sound back on.

NOTE! The device will always start with the last sound setting.

SWITCHING THE TEMPERATURE SCALE (°C-°F)

°C /°F switch is located under the batteries.

1. Open the battery compartment and remove the batteries.
2. Slide the switch to °C or °F to set the scale.
3. Replace the batteries and screw the battery compartment cover back on.



How to use your QualiThermo

TURNING THE BACKLIGHT OFF

QualiThermo allows you to turn the constant backlight off to save battery power. The backlight will still be illuminated for a few seconds when the temperature is displayed on screen.



To turn the constant backlight off, PRESS and HOLD the Mode / Backlight button. Repeat the same to turn it back on.

NOTE! The device will always start with the last backlight setting.

MEMORY FUNCTION

The device automatically saves the last 19 forehead measurements. It does not save the food & liquid or room temperature measurements.

To display the saved measurements, press and release the Memory / Sound Control button.

With each subsequent press of the button, the measurements as well as the modes they were taken in will be displayed starting from the most recent (MEM 1) to the oldest one.

When 19 storage places are exceeded the oldest value is deleted.

NOTE! If the scale is changed from°C to°F or°F to°C, measurements will be converted automatically.

How to use your QualiThermo

TROUBLESHOOTING

Error Message	Cause	Solution
H ₁	Temperature is higher than the measurement range.	Use the unit within its measurable range.
L ₀	Temperature is lower than the measurement range.	Use the unit within its measurable range.
Er1	Ambient temperature is out of the temperature range to take a measurement.	Let the unit rest for at least 30 minutes in a room with 10°C – 40°C (50°F – 104°F) temperature.
Er9	Indicates a malfunction.	Remove the batteries, reinsert them and turn the unit on again. If the problem persists, contact an authorized service center.

How to use your QuallThermo

CLEANING

To keep the sensor clean, be sure to replace the protective sensor cap on the device after each use. Clean the sensor only with a dry (or moistened with distilled water) non-scratch cloth.

To clean the other parts of the device, use a clean cloth or a cotton swab moistened with 70% alcohol and DO NOT use it until it is completely dry. DO NOT use any other cleaning agents. Ensure that no liquid enters the interior of the thermometer.

BATTERIES

QuallThermo comes with 2 AAA batteries.

It is advised to use alkaline batteries to operate the thermometer. It is not recommended to use rechargeable NiMH batteries. The thermometer will still operate using NiMH batteries but the operating time may be reduced considerably and the battery indicator will not indicate the actual battery status.

Battery Indicator

 The battery icon on screen displays battery life status.

Empty battery icon means that the batteries are low. When the empty icon starts flashing, it means that the batteries are empty and you must replace them.



Full



Half Full



Batteries
are low.



(Flashing)
Batteries are
empty, need to
be replaced.

To change the batteries, unscrew the battery compartment cover and remove the batteries. Insert the new batteries properly observing the correct polarity. Remove the batteries when the device will not be used for extended periods of time in order to avoid damage to the thermometer resulting from battery leakage, heat generation or bursting. Dispose of the old batteries according to local laws and regulations.

TECHNICAL SPECIFICATIONS

Type	: Non-contact thermometer (QTF2010)	Memory	: Stores the last 19 forehead measurements.
Measuring Range		Display	: LCD
Forehead	: 34°C – 43°C (93°F – 109.4°F)	Automatic Shut-off	: 30 seconds after last measurement has been taken.
Food & Liquid	: 0°C – 90°C (32°F – 194°F)	Storage Temperature	: -20°C to 50°C (-4°F – 122°F)
Room	: 0°C – 60°C (32°F – 140°F)	Operating Temperature	: 10°C to 40°C (50°F – 104°F) – Applies to Food&Liquid and Forehead measurements.
Resolution	: 0.1°C (0.1°F)	Storage Humidity Range:	10–85% non-condensing
Laboratory Accuracy		Operating Humidity Range:	15–85% non-condensing
Forehead	: ± 0.3°C for 34°C to 43°C (0.6°F for 93°F – 109.4°F)	Battery	: 2xAAA Batteries
Food & Liquid	: ± 0.3°C for 30°C to 37°C (± 1.8°F for 86°F to 98.6°F), ± 1°C (± 1.8°F) for the rest of the range	Battery Life	: Using Alkaline batteries, 48+ hours (8000+ measurements) with backlight on, 96+ hours (12000+ measurements) with backlight off.
Room	: ± 2°C for 0°C to 60°C (± 3.6°F for 32°F to 140°F)	Dimensions (LxWxH)	: 179x45x63mm (7"x1.8"x2.5")
Applied Part	: Type BF	Weight	: 90.6gr (3.2oz) not including the batteries
IP Rating	: IP22 (Protected from touch by fingers and objects greater than 12 millimeters. Protected from water spray less than 15 degrees from vertical.)		

COMPLIANCE

This device conforms to the following standards:

EN 60601-1: 2006+A2:2021 Medical electrical equipment – Part 1: General requirements for basic safety and essential performance

EN ISO 80601-2-56:2017+A1:2020 Medical electrical equipment – Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement – Amendment 1 (ISO 80601-2-56:2017/Amd 1:2018)

EN 60601-1-2 2015+A1:2020 Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances – Requirement and tests

NOTE: Do not use this device in the presence of electromagnetic or other interference outside the normal range specified in EN 60601-1-2 2015+A1:2020

EN 60601-1-11:2015+A1:2021 Medical electrical equipment – Part 1-11: General requirements for basic safety and essential performance – Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment

EN 60601-1-6:2010+A2:2021 Medical electrical equipment – Part 1-6: General requirements for basic safety and essential performance – Collateral standard: Usability

EN 60601-1-8:2007+A2:2021 Medical electrical equipment – Part 1-8: General requirements for basic safety and essential performance – Collateral Standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems

EN IEC 61000-4-3:2020 Electromagnetic compatibility (EMC) – Part 4-3 : Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test

EN 62304:2006+A1:2015 Medical device software – Software life-cycle processes

EU Medical Device Regulation MDR 2017/745

DESCRIPTION OF SYMBOLS

The below signs and symbols are used in the manual and/or on the product including its packaging.

	Manufacturer		Temperature Limit
	Type BF Applied Part		Humidity Limitation
IP22	IEC 60529/Degrees of protection provided by enclosures (IP Code)		Refer to the user manual
	Non-Sterile		The European Union WEEE (Waste Electrical and Electronic Equipment) Regulation – Equipment marked with the crossed-out wheeled bin is electrical and electronic equipment. The crossed-out wheeled bin symbol indicates that waste electrical and electronic equipment should not be discarded together with unseparated waste but must be collected separately.

DESCRIPTION OF SYMBOLS

	Catalogue Number
	Unique Device Identifier
	Medical Device
	Serial Number
	Products and packaging are lead-free

	Keep Dry
	Date Of Manufacture
	Recyclable Packaging
	Do not use if package is damaged and consult instructions for use
	CE Marking

LIMITED 3 YEAR WARRANTY

1. Quall warrants to the end-user customer that Quall products will be free from defects in material and workmanship and are under warranty for a period of 3 years from the date of purchase.
 2. This warranty excludes batteries and accessories supplied with this product which are worn out or used up through proper use.
 3. Quall limited warranty covers only those defects that arise as a result of normal use of the product in accordance with Quall's printed instructions and does not cover any other problems, including those that arise as a result of:
 - a. accident, misuse, negligent act or improper maintenance,
 - b. operation outside the product's specifications, printed instructions and technical manual,
 - c. unauthorized modification, alteration or service by the purchaser or a third party.
- This warranty applies only to the original purchaser of this product.
4. This warranty will be void if:
 - a. the serial number is removed or altered,
 - b. the device and / or its parts & accessories- unless specified as waterproof- are exposed to extreme hot, cold or humid conditions or are soaked in water.
 5. Neither Quall nor its third party suppliers makes any other warranty or condition of any kind, whether express or implied warranties or conditions of merchantability, satisfactory quality, and fitness for a particular purpose.

LIMITED 3 YEAR WARRANTY

6. In no event shall Quall be liable for direct, indirect, special, incidental or consequential damages, loss or expenses including but not limited to damages, loss or expenses as a result of a failure in the operation or performance of the equipment sold, repaired or serviced.
7. The customer must return any defective component to Quall or to one of its authorized dealers with freight prepaid.
8. If Quall receives, during the applicable warranty period, notice of a defect in any product which is covered by Quall warranty, Quall shall either repair or replace the product, at its sole discretion.
9. Repairs or replacements do not extend the warranty period under any circumstances.



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