

Symbol Descriptions

	Please do not dispose of the product in the household waste at the end of its useful life. Disposal can take place at appropriate collection points provided in your country.		To protect the environment, dispose of empty batteries at your retail store or at appropriate collection sites according to national or local regulations.
	Caution		BF type applied part
	Paper Recycling		Follow instructions for use
	Please do not use the Non-contact Forehead Thermometer in the MRI or MR environments, or it result in inaccurate readings.		
IP22	Classification for water ingress and particulate matter.		

Manufacturer's declaration-electromagnetic emissions			
WAND Mini is intended for use in the electromagnetic environment (for home healthcare) specified below. The customer or the user of WAND Mini should assure that it is used in such an environment.			
Emissions Test	Compliance	Electromagnetic environment – guidance (for home healthcare environment)	
RF emissions CISPR 11	Group 1	WAND Mini 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	WAND Mini 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.	

Manufacturer's declaration – electromagnetic immunity				
WAND Mini is intended for use in the electromagnetic environment (for home healthcare) specified below. The customer or the user of WAND Mini should assure that it is used in such an environment.				
Immunity test	IEC 60601 test level	Compliance Level	Electromagnetic environment – guidance (for home healthcare environment)	
Electrostatic discharge (ESD) IEC 61000-4-2	Contact:±8 kV Air±2 kV,±4 kV,±8 kV,±15 kV	Contact:±8 kV Air±2 kV,±4 kV,±8 kV,±15 Kv	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	30 A/m 50 Hz or 60 Hz	30 A/m 50 Hz and 60 Hz	WAND Mini power frequency magnetic fields should be at levels characteristic of a typical location in a typical home healthcare environment.	

Manufacturer's declaration – electromagnetic immunity			
WAND Mini is intended for use in the electromagnetic environment (for home healthcare) specified below. The customer or the user of WAND Mini should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance Level	Electromagnetic environment – guidance (for home healthcare environment)
Radiated RF IEC 61000-4-3	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	Recommended separation distance: $d = 1,2 \sqrt{P}$ 80MHz to 800 MHz $d = 2,3 \sqrt{P}$ 800MHz to 2,7 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, a should be less than the compliance level in each frequency range.b Interference may occur in the vicinity of equipment marked with the following symbol: 
NOTE1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			
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 WAND Mini is used exceeds the applicable RF compliance level above, WAND Mini should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating WAND Mini.			

Recommended separation distances between portable and mobile RF communications equipment and WAND Mini			
WAND Mini is intended for use in an electromagnetic environment (for home healthcare) in which radiated RF disturbances are controlled. The customer or the user of WAND Mini can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and WAND Mini 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	N/A	0,12	0,23
0,1	N/A	0,38	0,73
1	N/A	1,2	2,3
10	N/A	3,8	7,3
100	N/A	12	23
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (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.			

Manufacturer's declaration-electromagnetic immunity Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment							
WAND Mini is intended for use in the electromagnetic environment (for home healthcare) specified below. The customer or the user of WAND Mini should assure that it is used in such an environment.							
Test frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation ^{b)}	Maximum power (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)	Compliance LEVEL (V/m) (for home healthcare)
385	380–390	TETRA 400	Pulse modulation b) 18 Hz	1,8	0,3	27	27
450	430–470	GMRS 460, FRS 460	FM c) ±5 kHz deviation 1 kHz sine	2	0,3	28	28
710	704–787	LTE Band 13,17	Pulse modulation b) 217 Hz	0,2	0,3	9	9
745							
780							
810	800–960	GSM 800/900, TETRA 800, IDEN 820, CDMA 850, LTE Band 5	Pulse modulation b) 18 Hz	2	0,3	28	28
870							
930							
1720	1700–1990	GSM 1800; CDMA 1900; GSM 1900/DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation b) 18 Hz	2	0,3	28	28
1845							
1970							
2450	2400–2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation b) 217 Hz	2	0,3	28	28
5240	5100–5800	WLAN 802.11 a/n	Pulse modulation b) 217 Hz	0,2	0,3	9	9
5500							
5785							
NOTE If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.							
a) For some services, only the uplink frequencies are included. b) The carrier shall be modulated using a 50% duty cycle square wave signal. c) As an alternative to FM modulation, 50% pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.							

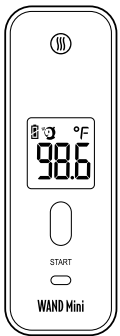


ThermoWorks

WAND Mini™

Non-Contact,
Forehead Thermometer

TX-5700



Operating Instructions

For tips on using infrared thermometers visit the ThermoWorks Help Center at help.thermoworks.com.

Indications for Use

WAND Mini is a non-contact digital forehead thermometer using an infrared detector (thermopile detector) to detect body temperature from forehead center in people of all ages.

Intended operator

The intended operator should have at least 8 years of education, including patients or other operators.

Clinical Benefits

The infrared forehead thermometer can be quick and safety to measure body temperature because it used a noninvasive method.

Functions

Forehead Temperature The thermometer has been designed for personal use. It's not meant to replace a visit to the doctor. Please also remember to compare the measurement result to your regular body temperature. Please consult with doctor if you have health concerns. • Please see the “Use of the thermometer” section to learn how to measure the body temperature.	
Temperature Awareness Signal If the thermometer detects a temperature $\geq 99.5^{\circ}\text{F}$ (37.5°C) under forehead mode, three short beep sounds will follow one long beep sound to warn the user for high temperature. If the thermometer detects a temperature $\geq 100.4^{\circ}\text{F}$ (38°C), the “Red LED” will be lit for a signal. RED: Continually monitor the body temperature. If in doubt about the person's condition, seek medical assistance.	
Memory There is 1 set memory for body temperature. • After measuring the body temperature, the device is turned on again and the last reading with icon is displayed on the LCD.	
°C / °F Switch With instrument turned off, press and hold the START button. After about 8 seconds, the display will show “°F” flashing. Release START button and press again and release. The display will show “°C” flashing. After about 5 seconds, the display will auto reset and there will be 2 short beeps. Complete the process again to switch back to °F. Please note: stored readings will be deleted when switching between units.	

Use of the Thermometer

1. Power on: Press the START button.

2. Measuring body temperature on the forehead: Press the START button to power on the device. There is the icon on the screen and hear two beep sounds. In this mode, you can hold the thermometer within 0.39 to 1.2 inches (1 to 3 cm) from the central forehead and press the START button to get the forehead measurement. Readings should take approximately 1 second. After two short beeps are heard, the icon stops flashing and is ready for the next measurement.

3. Power off: Device will automatically shut off if left idle for more than 1 minute to extend battery life.

Notes:

- Remember to keep the forehead area clean and away from sweat, cosmetics and scars while taking measurements.
- Please remain in a stable environment for 5 minutes and avoid exercising, bathing, or showering for 30 minutes, which can artificially raise your temperature.
- During the measurement, please avoid direct sunshine and wind.
- The “Clinical Bias” is 1.22°F (0.68°C).
- The “Limits of Agreement” is 1.27.
- The “Repeatability” is 0.11°F (0.06°C).

Cautions

- Choking from swallowing small parts and batteries by children or pets is possible, keep small parts and batteries out of reach of children.
- Insert the batteries correctly, and the positive (+) side up and the negative (–) side pointed down.
- No modification of this equipment is allowed.
- This device should not be submerged into any liquids or exposed to direct moisture. Keep away from direct sunlight.
- If there is temperature difference between the location where the device is stored and where measurement will take place, subject and device should remain in the same location for at least 15 minutes before measurement.
- Always be sure the probe lens is clean without any damage.

Troubleshooting

	Other errors, the system is not functioning properly. Remove the battery, wait for 1 minute and reinstall battery. If the message reappears, contact the retailer for service.
	Measurement before device stabilization. Wait for “Er1” to disappear.
	The ambient temperature is not within the range between 50 to 104°F (10 and 40°C). Allow the thermometer to rest in a room for at least 15 minutes at room temperature: 50 to 104°F (10 and 40°C).
	Temperature taken is higher than 109.4°F (43°C). Please select the target within specifications. If a malfunction still exists, please contact the nearest retailer.
	Temperature taken is lower than 82.4°F (28°C). Please select the target within specifications. If a malfunction still exists, please contact the nearest retailer.
	Device cannot be powered on to the ready stage. Change with a new battery.

Battery Replacement

When the “Low Battery” icon indicates the battery is low, the battery should be replaced immediately with one lithium cell CR2032 x1.

- Loosen the screw on the battery cover.
- Hold the device and flip the battery out with a small screwdriver.
- Insert a new battery according to the correct polarity under the metal hook, and press down until hearing a “click” sound.
- Replace the battery cover, and fasten the screw on the battery cover, being careful not to overtighten.

Storage and Cleaning

The instrument should be stored at room temperature, away from liquids and direct sunlight. If there are any temperature differences between the place where the instrument is stored and where you are going to measure, please allow the instrument to stabilize to the ambient temperature for at least 15 minutes. Holding the instrument too long may cause a higher ambient temperature reading. This could make the body temperature measurement lower than usual.

The sensor lens is the most delicate part of the instrument and should be kept clean at all times. Care should be taken when cleaning the lens to avoid damage. Use only a soft cloth or cotton swab with medical alcohol (70-75% alcohol), allowing the lens to dry fully (for at least one minute) before using the instrument again. After cleaning, visually verify that the lens is clean. If not, repeat previous step and continue cleaning. Failure to thoroughly clean may result in inaccurate measurements.

Warranty

This instrument carries a one-year warranty against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of ThermoWorks, be either repaired or replaced without charge. Full details of liability are available within ThermoWorks Terms & Conditions of Sale at www.thermoworks.com/product-warranty.

For warranty, service, and technical assistance, please contact ThermoWorks' Technical Support at (385) 330-0591 or email at techsupport@thermoworks.com.

WARNING

- INGESTION HAZARD:** This product contains a button cell or coin battery.
- DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause Internal Chemical Burns** in as little as **2 hours**.
- KEEP** new and used batteries **OUT OF REACH OF CHILDREN**.
- Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



- Remove and immediately recycle or dispose of use batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate them.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat about 60°C or incinerate. Doing so may result in injury due to venting, leakage, or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and –)
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period according to local regulations.
- Always completely secure the battery compartment . If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

Specifications

Temperature Range	82.4 to 109.4°F (28 to 43°C)
Operating Range	50 to 104°F (10 to 40°C) 15 to 85% RH
Storage Range	–4 to 122°F (–20 to 50°C), RH $\leq$ 85%
Transport. Temp	Shall be less than 158°F (70°C), RH $\leq$ 95%
Atmospheric Pressure	800 to 1013 hPa
Accuracy	$\pm 0.4^{\circ}\text{F}$ (0.2°C) within 95 to 107.6°F (35 to 42°C), otherwise $\pm 0.5^{\circ}\text{F}$ (0.3°C)
Resolution	0.1°
Units	°F/°C
Auto-Off	60 seconds
Battery	CR2032 3V lithium cell battery x1, 3,000 continuous readings
Dimensions	4.1 L x 1.4 W x 0.9 D inches (102.98 x 34.98 x 22.70 mm)
Weight	1.7 oz (48.4 g)
Expected Service Life	4 years
Contents	Thermometer x1, Operating Instructions x1, Battery CR2032 3V lithium cell x1

Complies with ASTM E1965-98, EN ISO 80601-2-56, IEC/EN60601-1-2(EMC), IEC/EN60601-1 (Safety) standards, ISO10993, RoHS

This thermometer is an adjusted mode thermometer that converts forehead temperature to display its 'oral equivalent'. (According to the result of the clinical evaluation to get the offset value).

This device is suitable for measuring the temperature without and contradictions.



ThermoWorks

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