



MEDSOURCE HTD8813C Non Contact Infrared Body Thermometer User Manual

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MEDSOURCE User Manual Non-Contact Infrared Body Thermometer Model: HTD8813C



Please read this manual before operating this device, important safety information is inside.

Foreword

The Non-Contact Infrared Body Thermometer Operating Instructions intend to provide the necessary information for the proper operation of the Infrared Thermometer model.

General knowledge of Infrared thermometers and an understanding of the features and functions of the Infrared Thermometer model are prerequisites for proper use.

The Non-Contact Infrared Body Thermometer is a medical device, and can be used repeatedly, using life is 3 years

Please read the manual first before using it, if not fully understand the usages, please stop using the thermometer.



Do not operate the Infrared Thermometer without completely reading and understanding these instructions.

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Safety Information

This device may only be used for the purposes described in these instructions. The manufacturer cannot be held liable for damage caused by the incorrect application.



Warning

Warnings are identified by the WARNING symbol shown above.

- The Non-Contact Infrared Body Thermometer is to be operated by consumers in the home setting and primary care setting as a screening tool. This manual, accessories, direction for Use, all precautionary information, and specifications should be read before use.
- This product is designed to measure human body temperature on the forehead. Do not use it for any other purpose.
- This product is intended in the home setting and primary care setting as a screening tool.
- Do not use the thermometer if it malfunctions or has been damaged in any manner.
- When the ambient temperature of the thermometer changes too much, such as moving the Thermometer from one place of lower temperature to another place of higher temperature, allow the thermometer to remain in a room for 30 minutes where the temperature is between 15 C to 35 C (59 F to 95 F).
- Remove primary batteries if the equipment is not likely to be used for a long time.
- This product is not waterproof, do not be immersed in water or other liquid; If cleaning and disinfection, please follow the "Care and Storage" section requirements.
- Do not touch the sensor of infrared detection with your fingers.
- If a cold compress on the forehead fever patients, or take other measures to cool down, the temperature data will be low, should be avoided in this case to measure body
- If measure human forehead temperature, please select "body" mode; for measure other objects, liquids, food and other temperature please select "surface" mode.

- This product must be operated in a stable environment, if the ambient environment was mutations, please should be noted whether there is fog on the sensor, if any, before using in accordance with the “Care and Storage” section to removing the fog.
- Do not near strong electrostatic fields or strong magnetic fields, thus avoiding the impact on the accuracy of the measurement data
- Do not mix the old and new batteries to avoid damage to the product.
- It may affect the accuracy of measurements when the forehead is covered by hair, perspiration, cap or scarf.
- The measuring result of this product is only for your reference. If you have any doubt, please measure the temperature in other methods.



The device should be kept out of the reach of children/pets. When not in use, store the device in a dry room and protect it against extreme moisture, heat, lint, dust, and direct sunlight. Never place any heavy objects on the storage case.



Do not throw batteries into fire.



Only use recommended batteries. Do not use rechargeable batteries. S This thermometer is irreplaceable for diagnostic in hospitals.




Do not fall, disassemble or modify the device.



Do not use this device if you think it is damaged or notice anything unusual.



This device comprises sensitive components and must be treated with caution. Observe the storage and operating conditions described in the  Technical Specifications section.



Not servicing/maintenance while the Thermometer is in use.



When using, shall not touch battery and the patient simultaneously.



Do not use the device If It is damaged /degraded /loosened In any way. The continuous use of a damaged unit may cause injury, Improper results, or serious danger.



Based on the current science and technology, other potential allergic reactions are unknown.



This equipment needs to be installed and put into service in accordance with the information provided in the ACCOMPANYING DOCUMENTS.

OVERVIEW

Intended Use

The Non-Contact Infrared Body Thermometer is designed to be used for intermittent measurement and monitoring of human body temperature by consumers in the home setting and primary care setting as a screening tool.

Description of Non-Contact Infrared Body Thermometer

- Device principle and introduction

The Noncontact Thermometer is a hand-held, reusable, battery-operated device. which can measure human body temperature on the forehead, the skin temperature on one's forehead.

The operation principle is based on Infrared Sensor technology. The IR sensor can output different signals

when measuring different object temperatures or at different ambient temperature, and the ASIC can turn the signal from IR Sensor to a digital value and display it on the LCD.

- The description on Controls, Indicators, and Symbols

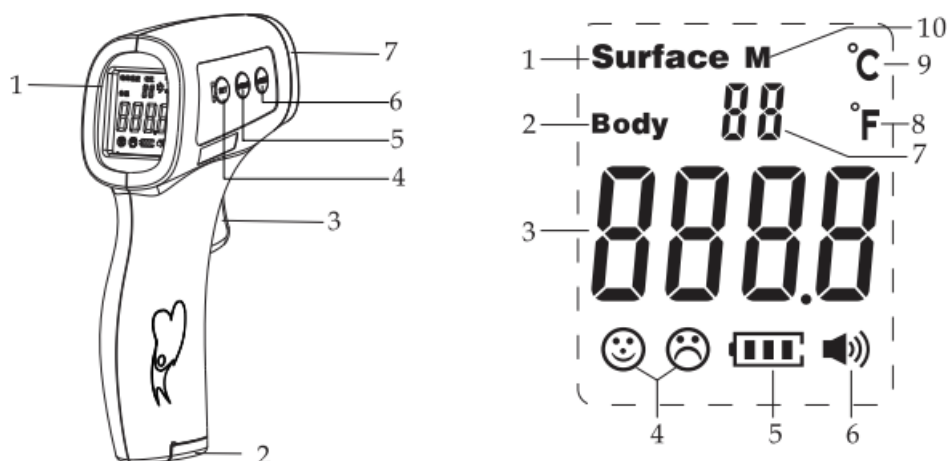


Figure 1: HTD8813C Infrared body thermometer






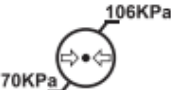






1. LCD Display 2. Battery Cover 3. ON/Scan Button 4. Set Button	5. MEMO Button 6. MODE Button 7. IR Sensor
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1. Surface Mode 2. Body Mode 3. Digital Display 4. Smile or Cry Indicator 5. Battery Indicator	6. Buzzer on/off Indicator 7. Memory number 8. °F 9. °C 10. Memory
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Thermometer Applications

Thermometer Model Number	Thermometer Style	Adult		Pediatric	
		Ear	Forehead	Ear	Forehead
MS-131002	Non-Contact Infrared Body Thermometers		√		√

Equipment Symbols

	Warning		Compliance with WEEE Standard
	Non sterile Packaging		DO NOT THROW AWAY Intended for multiple use
	Refer to Operating instructions		Operating atmospheric pressure
	Operating Temperature		serial number
	Operating Humidity		recyclable
	manufacturer		This device complies with Part 15 of FCC (Federal Communications Commission) Rules.
IP22	IP22: The first number 2: Protected against solid foreign objects of 12.5 mm Φ and greater. The second number: Protected against vertically falling water drops when enclosure tilted up to 15°.		

Technical Specifications

Measurement Unit	°C /°F
Operating mode	Adjusted mode(Body mode) Direct mode(surface mode)
Measuring site	Forehead
Reference Body Site	A: ciliary
Rated output range	Body mode: 35.0C – 42.0 C /95.0°F -107.6°F Surface mode: 0.0'C – 100.0C / 32.0°F-212.0°9
Extended output range	Body mode:34.0C – 34.9C/932°F-94.19% 42.1C- 42.9C/107.8-109.2°F
Range	Body mode:34.0C – 42.9 C/ 93.2°F-109.2°F Surface mode: 0.0C -100.0 C/ 32-212°F
Accuracy	Body mode: 34.0C – 34.9 C:±0.3 C / 93.2 °F-94.13,±0.5W; 35.0C – 42.0 C:±0.2 C /95.0°9-107.6°F:±0.4°F• 42.1C – 42.9 C:±0.3 C /107.8°F-109.2°F: ±0.5°F;
	Surface mode:±2.0C/±3.6°F.
Display Resolution	0.1C/0.1 F
Three•color Backlight (Color Alarm)	35.5-37.3 / 95.9-99.1°F: Green (Normal Temperature); 37.4-38.0°C(Alarm) / 99.3-100.4°F: Yellow (Slight Fever) 38.1-42.9 / 100.6-109.2°F: Red (High Fever) Note: 1 Surface mode is always with Green backlight. 2. In body mode 34.0-35.4 is with green backlight.
Auto Power Off Time	518s
Measuring Time	525
Measuring Distance	1CM-5CM(0.4-21in)
Memories	50

Power Supply Requirements	
Batteries	1.5V (AAA) alkaline batteryX2 (IEC Type LR03)
Adaptable Range	2.6V-3.6V
Environmental	
Operating Condition	Operating Temperature:15.0C —35.0C(SEPF-950°F), Relative Humidity58-95% atmospheric pressure:70Kpa-106Kpa
Transport and Storage Condition	Storage Temperature:-20°C-+55°C / -4 – 131°F, Relative Humidity93% atmospheric pressure:70-106Kpa

Dimension and Weighting	
Weight (without batteries)	90g
Size	L:138mm X W:9Smm X H:40mm
Compliance	
Item	Compliant with
Equipment classification	Safety Standards: EN 60601-1: 2006.A1:2013, EN 60601-1-2:
Type of protection	Internally powered equipment (on battery power)
Degree of protection	Non Applied part
Front panel and case labeling	EN ISO15223-1:2012
Temperature	EN 15080601-2-56:2012
Home healthcare environment	EN 60601-1-11:2010

Calculated values of the indicators according to ISO 80601-2-56

Indicators	Calculated value
Clinical bias, Δ_{cb} .	0.007
Standard deviation,	0.14
Limits of agreement, LA	0.26
Clinical repeatability, at	0.07

Safety classification of ME EQUIPMENT

Protection against electric shock	Internally powered ME equipment
Applied part	Non Applied part
Protection against harmful ingress of water or particulate matter	IP22
Mode of operation	Continuous operation

Note: Not intended to be sterilized. Not for use in an OXYGEN RICH ENVIRONMENT

OPERATION

Battery installation

Caution: The Non-Contact Infrared Body Thermometer does not operate with dead batteries and does not input outer power. Install new batteries.

1. Pull the battery downward, toward the bottom of the Non-Contact Infrared Body Thermometer, and remove the battery access door;
2. Insert two pieces of MA size batteries according to the “+” and “-“; 3)Close the battery cover.

How to operate

Before Applying the Thermometer

Be sure to read and understand all Warnings listed in the instructions before use.

- The thermometer is aligned with the middle of the forehead to measure body temperature (between the eyebrows above) and keep the vertical distance, press the On/Scan button, temperature display immediately, see figure 2.

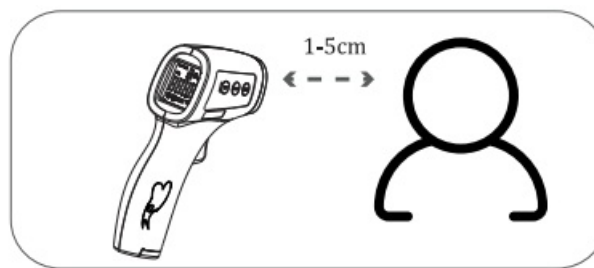


Figure 2-Measuring position and distance

- When the ambient temperature of the thermometer changes too much, such as moving the Thermometer from one place of lower temperature to another place of higher temperature, Allow the thermometer to remain in a room for 30 minutes where the temperature is between 15 C to 35 C.
- The ambient temperature around the test person should be stable, should keep away from the larger flow fan, air-conditioning vents, and so on.
- When people moving from one place of lower temperature to another place of higher temperature, should at least remain in the test environment for more than 5 minutes, to be consistent with the ambient temperature after the re-measurement.
- Wait at least 1 second for the next measurement. If the continuous measurement of five times, it is recommended to wait at least 30 seconds and then continue the measurement.
- You cannot use the thermometer in a place where the sun is strong.
- If for some reason the low forehead temperature measurement can try to align behind the ears. See figure 3.

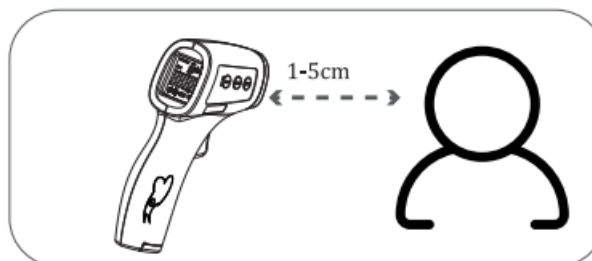


Figure 3- Align behind the ears to measurement

General Setup and Use

1. Start measuring

1. Turn on the thermometer by pressing the On/Scan button. The thermometer will perform a self-test with all segments displayed for 2 seconds.
2. Align staff forehead to keep the distance, and then press the On/Scan button to start the measurement, read the data.

Note 1) After full display over, you will hear a rattle or “beep beep beep” three times, which means that the measurements have been completed, while the target value of the measured temperature is displayed on the LCD, while backlit display according to the appropriate setting among the three colors red, green, yellow one of. And the Green means ready for the next measurement When 37.4 C -38.0 C, its yellow .means slight fever warning. Please pay attention to body temperature. When the body temperature is above 38.1 C. it's red. means high fever. Please take action to cool down or go for the doctor.

2. To ensure the accuracy of the measurement, wait at least 30 seconds after 5 consecutive measurements.

- **Mode conversion**

When the device is running, press the MODE button to *cyc/e* conversion between ‘body’ mode and “surface” mode.

‘body’ mode is used for measuring human body temperature, the “surface ” mode is used to measure the surface temperature. (The factory default is ‘body’ mode).

- **Recalling and Erasing Memory Data**

The last temperature taken before the thermometer powers off is stored in memory, up to 50.

MS-131002as below step:

1. In the boot or shutdown state, short press the MEMO button to view the history of measured values.
2. An empty memory cell shows “•• C’ or”— T “.
3. Temperature readings can be stored in memory. Up to 50 temperature readings can *be* stored into the memory cells and automatically overwrite historical data.
4. In boot mode, press the MEMO button until the LCD display•ae, which means that all stored data is cleared completely.

- **Parameter settings**

This product can be set according to the subjects of different colors and different environments data to meet the different characteristics of populations or individuals. Long press the MODE button to modify the measurement parameters.

1. **Unit Set-F1**

Under the boot mode Long press the SET button to enter F1, press the ‘MODE’ or “MEMO” button to switch Celsius and Fahrenheit temperature units, press the SET button to confirm the unit settings (factory default Fahrenheit).

2. **Fever alert set-P2**

Under P1 state, press the SET button to enter the F’2. press the “MODE’ button to decrease 0.1 10, press the ‘MEMO’ button plus 0.1 C. long-press to accelerate the speed of temperature regulation, and finally, press the SET button to save. (The factory default is 38.1 C)

3. **Prompt sound settings-F3**

Under P2 state short press the SET button to enter F3, press the MODE button or MEMO button to set voice switch and press the SET button to confirm the settings. (The factory default is the voice Prompt to open).

4. **Overall temperature offset value-F4**

To meet the different colors, different characteristics of the population. or the environment caused by seasonal

temperature change is large that need for temperature detection and debugging.

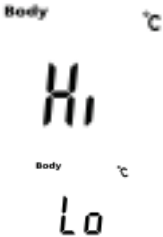

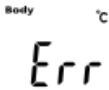
Under P3 state short press the SET button to enter F4. Press the MEMO button to plus 0.1 C. press the MODE button to decrease 0.1 C. long-press fast subtraction temperature, and then SET button to confirm the parameter setting.





Parameter adjustment range: -5°C and +5C (factory default is 0).

5. Exit setting mode

In the F4 mode, press the SET button will automatically turn off the screen. exit setting.

TROUBLESHOOTING

MESSAGE	SITUATION	SOLUTION
	Temperature is taken in not within the Typical human temperature range.(34.0C – 42.9 C or 93.21 – 109.21).	Make sure the forehead thermometer is for forehead measurement, not another human body site.
	Measured over the distance of 1.5 cm (0.4-2 in).	The optimum measurement distance is 1cm.
	Incorrect test position.	See figure 2 Measuring position and distance.
	Subjects forehead hair, Antipyretic stickers, head with sweat. etc.	Subjects sit quietly 5-10 minutes before the test.
	Some people's body temperature is lower than the general population.	The main concern is fever temperature
	F4 overall temperature offset Asset in correctly	Adjust the temperature offset value
	Operating temperature exceeds the range of specified temperature.	Move to a room within the operating range wait 30 minutes before taking temperature.

	The screen flicker, automatic turn off.	Replace battery or the product has been damaged, needs repairs.
	The battery capacity is too low. Taking Temperature is not allowed.	Install a new battery
	Ambient temperature changes too fast	Wait until the ambient temperature is stable.
	(1) Power is off. (2) Improper battery installation. (3) The battery is exhausted. (4) Display remains blank.	(1) Press On/Scan button again. (2) Check the battery polarity. (3) Replace with a new battery. (4) Contact the retailer or service center

REPLACING THE BATTERY

- Open and release battery cover following indicator on the surface of the battery cover. Before changing the battery be sure the system is already power off.
- Remove the battery and replace with 2 new one, type AAA, Make sure align properly as indicated inside the battery cover.
- Slide the battery cover back in until it snaps in place.
- Do not dispose of used batteries in household waste. Take them to special local collection sites.
- In case, if the system is latched up after changing the battery. You may not follow up the process of rule one. Just take off the battery, waiting 30 sec, then load the battery again.



Warning

Do not recharge, disassemble or dispose of in fire.

- The typical service life of the new and unused batteries is 2000 measurements for the operation time is 18s.
- Only use the recommended batteries, do not recharge non-rechargeable batteries, and do not burn them.
- Remove the batteries if the thermometer is not to be used for a long period.

MI 5-CLEANING CARE AND STORAGE

The lens is very delicate.

It is very important to protect the lens from dirt and damage.

Use a clean, soft cloth to clean the surface of the device and LCD. Do not use solvents or immerse the device into water or other liquids.

Always keep the thermometer within the storage temperature and humidity range as specified.

It is recommended to store the thermometer in a dry location free from dust.

Always keep the thermometer within the storage temperature range (. 20 C to 55 Cor – 4 F to 131 T) and humidity range (s93% non-condensing).

It is recommended to store the thermometer in a dry location free from dust. Do not expose the thermometer to direct sunlight. high temperature/ humidity or any extreme environment. otherwise, the function will be reduced.

When the ambient temperature of the thermometer changes too much, such as moving the thermometer from one place of lower temperature to another place of higher temperature, allow the thermometer to remain in a room for 30 minutes where the temperature is between 15°C to 35°C.

DISPOSAL

- Used batteries should not be disposed of in the household rubbish. Used Batteries should be deposited at a collection point.
- At the end of its life, the appliance should not be disposed of in household rubbish. Enquire about the options for environment-friendly and appropriate disposal. Take local regulations into account.

WARRANTY

Our company warrants a Non-Contact Infrared Body Thermometer at the time of its original purchase and for the subsequent time period of one year.

The warranty does not cover the following:

- The device series number label is torn off or cannot be recognized.
- Damage to the device resulting from misconnection with other devices.
- Damage to the device resulting from accidents.
- Changes performed by users without the prior written authorization of the
- Batteries and packaging are not covered under warranty

When asked to provide warranty service, you must have a purchase date and purchase stamp dealers (including dealers' names and addresses) of the warranty card. Be sure to ask the dealer to purchase this product signature on the warranty card. When asked to provide warranty service, please put the product to get our distribution points for repair. Products outside the warranty expires will be charged accordingly.

Note:

1. If you have any problems with this device, such as setting up, maintaining, or using it. please contact with SERVICE PERSONNEL of us. Don't open or repair the device by yourself.
2. Please report to us if any unexpected operations or events occur.
3. Calibration needed to ensure proper function for every two years or after the device
4. The patient is an intended operator. The patient can measure and change the battery. Under normal circumstances and maintain the device and its accessories according to the user manual.

EMC Declaration

- This equipment needs to be installed and put into service in accordance with the Information provided in the ACCOMPANYING DOCUMENTS; This product needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided, and this unit can be affected by portable and mobile RF communications equipment
- Do not use a mobile phone or other devices that emit electromagnetic fields, near the unit This may result in incorrect operation of the unit.
- Caution: this unit has been thoroughly tested and inspected to assure proper performance and operation!
- Caution: this machine should not be used adjacent to or stacked with other equipment and that if adjacent or

stacked use is necessary, this machine should be observed to verify normal operation in the configuration in which it will be used.

Guidance and manufactures declaration – electromagnetic emission		
The Non-Contact Infrared Body Thermometer Is intended for use in the electromagnetic environment specified below. The customer of the user of the Non-Contact Infrared Body Thermometer should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment – guidance
RE emissions CISPR 11	Group 1	The Non-Contact Infrared Body Thermometer use 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. The Non-Contact Infrared Body Thermometer Is suitable for use in all establishments, other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
RF emission CISPR 11	class B	
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable	

Guidance and manufacture's declaration – electromagnetic immunity			
The Non-Contact Infrared Body Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of a Non-Contact Infrared Body Thermometer should assure that It Is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment • guidance
Electrostatic discharge (ESD) IEC 61000-4-2	16 kV contact * 8 kV air	±6 kV contact IR kV air	Floors should be wood, concrete or ceramic tile If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000.4-4	aWforpowasupplyfincs .1 wfor input/output lines —	Not applicable	Mains power quality should be that of a typical commercial or hospital environment

Surge IEC 61000-4-S	± 1 kV line(s) to line(s) 12 kV line(s) to earth	Not applicable	Mains power quality should be that of a typical commercial or hospital environment
Voltage dips short interruptions and voltage variations on power supply input lines IEC 61000-4-11	$eS\% U_{\text{e}}$, ($>95\%$ dip in U_{T}) for 0.5 cycle $40\% U_{\text{e}}$, (60% dip in U_{e}) for 5 cycles $70\% U_{\text{e}}$, (30% dip in U_{e}) for 25 cycles $<S\% U_{\text{e}}$, ($>95\%$ dip in U_{T}) for 5 sec	Not applicable	The mains power quality should be that of a typical commercial or hospital environment. If the user of the Non-Contact Infrared Body Thermometer requires continued operation during power mains interruptions, it is recommended that the Non-Contact Infrared Body Thermometer be powered from an uninterruptible power supply or a battery.
Power frequency (50/60Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE LIT is the ac. mains voltage prior to application of the test level.			

Guidance and manufacture's declaration – electromagnetic immunity

The Non-Contact Infrared Body Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the Non-Contact Infrared Body Thermometer should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Conducted RF IEC 61000-4.6	3 Wins 150 kHz to 80 MHz	Not applicable	Portable and mobile RF communications equipment should be used no closer to any part of the Non-Contact Infrared Body Thermometer, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter separation distance

Radiated RF!EC 610 00-4-3	3 V/m 80 MHz to 2.5 GHz	3 V m /	<p>stance $d=1,2dp$ $d=1,2Jp$ 80 MHz to 800 MHz $d=2,34$ 80 MHz to 2,5 GHz Where P Is the medium output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).</p> <p>Field strengths from freed RF transmitters, as determined by an electromagnetic site survey should be less than the compliance level In each frequency range Interference may occur in the vicinity of equipment matted with the following symbol: fie</p>
<p>NOTE 1 At 80 MHz and 800 MHz, 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.</p>			
<p>a . 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 the Non-Contact Infrared Body Thermometer is used exceeds the applicable RF compliance level above, the Non-Contact Infrared Body Thermometer should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the Non-Contact Infrared Body Thermometer.</p> <p>b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.</p>			

Recommended separation distances between portable and mobile RF communications equipment and the Non-Contact Infrared Body Thermometer.

The Non-Contact Infrared Body Thermometer is intended for use in an electromagnetic environment in which radiated RF disturbance is controlled. The customer or the user of the Non-Contact Infrared Body Thermometer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Non-Contact Infrared Body Thermometer as recommended below, according to the maximum output power of the communications equipment.

The rated maximum output power of the transmitter (W)	Separation distance according to the frequency of the transmitter (m)		
	150 kHz to 80 MHz d=1,2Jp	80 MHz to 800 MHz d=1,24p	800 MHz to 2.5 GHz d=2,34
0.01	0.12	0.12	0.23
0.1	0.38	38	0.73
1	1.	1.	23
10	4.	4.	7.
100	12	12	23

For transmitters rated 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.

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Documents / Resources

	<p>MEDSOURCE HTD8813C Non Contact Infrared Body Thermometer [pdf] User Manual HTD8813C, Non Contact Infrared Body Thermometer</p>
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References

-  [MedSource Labs Quality Medical Products and Solutions](#)