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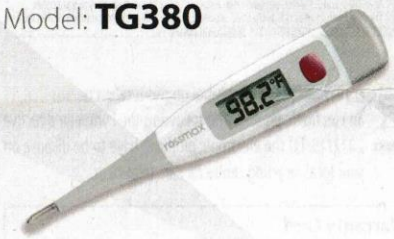
Model: **TG380**



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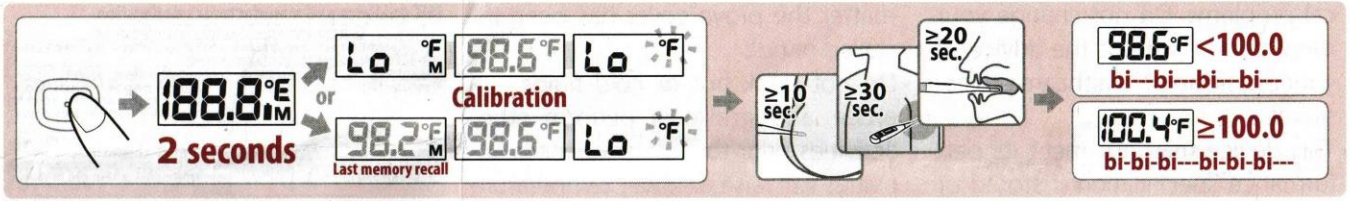

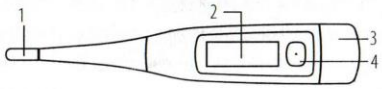

EN 1. Probe, 2. Display, 3. Battery Cover, 4. ON/OFF/START Button

EN English

Introduction

The Digital Medical Thermometer provides quick, highly accurate reading over the human body temperature range. The quality of the thermometer has been verified and conforms to the provisions of the EC council directive 93/42/EEC(Medical Device Directive) Annex I essential requirements and applied harmonized standards. EN 12470-3: 2000 / A1: 2009 Clinical thermometers-Part 3: Performance of compact electrical thermometers (non-predictive and predictive) with maximum device.

Attention: Consult the accompanying documents. Please read this manual carefully before use. Please be sure to keep this manual.

Battery Replacement

Place a new 1.5V D.C. button size battery type SR41 or LR41 or equivalent in the chamber with positive side faced up and negative side faced down.

Display on the LCD

M: Last measured temperature.

▬ : When the ▬ appears on the bottom right corner of the LCD, the battery is exhausted and needs replacement.

Troubleshooting

Error message	Problem	Solution
Err	The system is not functioning properly	Unload the battery, wait for 1 mins and repower it. If the message reappears, contact the retailer for service.
Hi °F (bi-bi...bi)x10	Temperature taken is higher than 109.9°F (42.9°C)	Take a new temperature via close contact and sufficient rest.
Lo °F	Temperature taken is lower than 90.0°F (32°C)	Take a new temperature via close contact and sufficient rest.
	Dead battery: Battery icon is flashing, can't be measurable.	Suggest to replace the battery.

Cleaning and Disinfection

1. Clean the unit by wiping it with a dry cloth and disinfect the probe with ethyl alcohol.
2. Don't let the unit contact any chemical thinner.
3. Do not soak the display in water.

Caution

⚠ • Do not bend, drop or twist the thermometer. It is not shockproof.

• Do not store the unit under direct sunlight, at a high temperature, in high humidity or dust.

• Do not disassemble. See BATTERY REPLACEMENT to replace battery.

• Avoid strong electromagnetic interference such as microwave ovens and cell phones.

• Keep battery away from children. Harmful is swallowed.

• Battery should not be charged or placed into extreme heat as it may explode.

• Remove battery from the thermometer when not in operation for a long time.

• If the unit is stored in an extreme environment before measurement, please make sure it has been firstly adapted in the room temperature, so that the unit can be measured normally.

• Measurement results are for reference only. Contact your physician if you have or suspect any medi-

cal problems. Do not change your medications without the advice of your physician or healthcare professional.

- This device may not meet its performance specification if stored or used outside temperature and humidity ranges specified in specifications.
- If this device is used according to the operations instruction, periodic re-calibration is not required. If you still have questions, please send the device to dealers.
- Please do not dispose of the product in the household waste at the end of its useful life. Disposal can take place at your local retailer or at appropriate collection points provided in your country.
- High, prolonged fever requires medical attention especially for young children. Please contact your physician.
- For safe reason, during children's temperature measurement, please keep them from crying, walking, talking and any related dangerous activities.
- Usage of the probe cover may result in a 0.2°F (0.1°C) difference from actual temperature.
- To clean the probe before and after using the thermometer to ensure an accurate reading and avoid cross contamination approximately, no matter the prove cover has been installed or not.
- Do not drink hot or cold fluids, exercise, and smoke or perform other activities prior to a reading. These activities will raise or lower temperature readings when compared to your normal, average temperature.
- Please ensure the close contact between the probe and the armpit of the baby or children.

Specifications

Measurement Range	90.0°F~109.9°F (32.0°C~42.9°C)
Accuracy	±0.2°F 95.9°F~107.6°F (±0.1°C 35.5°C~42.0°C); ±0.4°F under 95.9°F or over 107.6°F (±0.2°C under 35.5°C or over 42.0°C)
Battery Life	Approx. 1500 times operation or 1 year with 1-2 measurement per day including standby mode.
Environmental for using	Temperature: 41°F~104°F (5~40°C), Humidity: 15%~95%RH; 700~1060 hPa
Storage and transportation condition	Temperature: -4°F~131°F (-20~55°C), Humidity: 15%~95%RH; 700~1060 hPa
Waterproof Level	Waterproof
IP Classification	IP22, Protection against harmful ingress of water and particulate matter
Safety classification	Type BF Applied Part

EMC guidance and manufacturer's declaration

Guidance and manufacturer's declaration-electromagnetic emissions

The TG380 is intended for use in the electromagnetic environment specified below. The customer or the user of the TG380 should assure that it is used in such an environment.

Emission test	Compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The TG380 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	Class B	The TG380 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.
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/flicker emissions IEC 61000-3-3	Not applicable	

Guidance and manufacturer's declaration-electromagnetic immunity

The TG380 is intended for use in the electromagnetic environment specified below. The customer or the user of the TG380 should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Electrostatic discharge(ESD) IEC61000-4-2	+ 6 kV contact + 8 kV air	+ 6 kV contact + 8 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 IEC61000-4-4	+ 2kV for power supply lines + 1kV for input/output lines	Not applicable Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	+ 1kV line(s) to line(s) + 2kV line(s) to earth	Not applicable 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	<5% UT(>95% dip in UT) for 0.5 cycle 40% UT(60% dip in UT) for 5 cycles 70% UT(30% dip in UT) for 25 cycles <5% UT(>95% dip in UT) for 5 s	Not applicable Not applicable Not applicable	Mains power quality should be that of a typical commercial or hospital environment. If the user of the TG380 requires continued operation during power mains interruptions, it is recommended that the TG380 be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	The TG380 power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE UT is the a.c. mains voltage prior to application of the test level.

Guidance and manufacturer's declaration-electromagnetic immunity

The TG380 is intended for use in the electromagnetic environment specified below. The customer or the user of the TG380 should assure that is used in such and environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 KHz to 80 MHz	Not applicable	Portable and mobile RF communications equipment should be used no closer to any part of the TG380 including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance: $d = 1.2\sqrt{P}$, $d = 1.2\sqrt{P}$ 80MHz to 800 MHz, $d = 2.3\sqrt{P}$ 800MHz to 2,5 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:
Radiated RF IEC 61000-4-3	3 V/m 80MHz to 2,5 GHz	3 V/m	

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.

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 TG380 is used exceeds the applicable RF compliance level above, the TG380 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the TG380.

b. Over the frequency range 150 kHz to 80 MHz, field strengths should be les than 3 V/m.

Recommended separation distance between portable and mobile RF communications equipment and the TG380

The TG380 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the TG380 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the TG380 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 2,5 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

The maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE1 At 80 MHz and 800 MHz, the separation distance for 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.

EN **WARNING:** The symbol on this product means that it's an electronic product and following the European directive 2012/19/EU the electronic products have to be dispose on your local recycling centre for safe treatment.

Warranty Card

This instrument is covered by a 2 year guarantee from the date of purchase, batteries and accessories are not included. The guarantee is valid only on presentation of the guarantee card completed by the dealer confirming date of purchase or the receipt. Opening or altering the instrument invalidates the guarantee. The guarantee does not cover damage, accidents or non-compliance with the instruction manual. Please contact your local seller/dealer or www.rossmax.com.

Customer Name: _____
Address: _____
Telephone: _____
E-mail address: _____
Gender: Male ☐ **Female** ☐ **Age:** _____
Product Information
Date of purchase: _____
Store where purchased: _____

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ISO 9001/13485 CE 0120

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