

rossmax

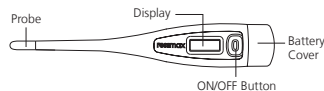


Model: TG100\TG120

EN

Instruction Manual

www.rossmax.com



### How to Use

1. Push the On/Off button by the display window. The display will read 188.8 for 2 seconds and beep sound will be heard.
2. Releasing the on/off button, last measured temperature will be shown for about 2 seconds. Then shows the self-test temperature 37.0°C(98.6°F), and then Lo°C (Lo°F) displays.
3. Wipe or dip the probe with alcohol for disinfection. Position the probe in oral, rectal or axillary site.
4. Once the degree sign °C ( °F) on the display has stopped flashing (usually within 30 to 60 seconds), an Beep signal will sound for approx. 10 times, the measured temperature is shown on LCD window. The temperature reading will not change after the unit is removed from testing position. If the temperature <37.8°C(100.0°F) , the buzzer will alarm "Bi---Bi---Bi---". If the temperature ≥ 37.8°C (100.0°F), the buzzer whose frequency is higher will alarm "Bi-Bi-Bi---Bi-Bi-Bi---" about 10 times rather than "Bi---Bi---Bi---".
5. The unit will automatically turn off in 10 minutes for energy saving. However, to prolong the life of the battery, it is suggested to press the On/Off button to turn the unit off once the measurement is done.
6. Please dispose of any used battery and the thermometer according to the local regulations.



Note: After step 2, if the room temperature is greater than 32.0°C (89.6°F) , it will be displayed the room temperature.

Note: Usage of the probe cover may result in a 0.1°C(0.2°F) difference from actual temperature.

Note: To clean the probe before and after using the thermometer to ensure an accurate reading and avoid cross contamination approximately.

### Oral Use

Place the probe well under the patient's tongue. Confirm the patient to keep his mouth closing for about 1 minute.



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.

### Axillary Use

Tightly place probe in the patient's armpit for about 1-5 minutes.  
\*Please ensure the close contact between the probe and the armpit of the baby or children.


### Rectal Use

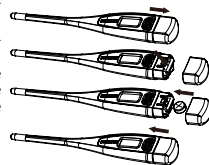
- Always uses probe cover when taking rectal measurements.
1. Commonly used for young children when it is difficult to take an oral or axillary temperature.
  2. Lubricate with a water-soluble gel. Do not use petroleum jelly.
  3. Gently insert the probe tip no more than 1.5-2 cm into the rectum for about 1 minute. Do not force the tip into the rectum if resistance is encountered.
  4. Disinfect the thermometer after use. Refer to "cleaning and disinfection" section.

### °C /°F Switchable

Temperature readings are available in the Fahrenheit or Celsius scale (°C / °F; located in the right of LCD.) With the unit off, press and hold the On/Off Button for approximately 4 seconds to change the current setting.

### Battery Replacement


1. When the  appears on the upper right corner of the LCD, the battery is exhausted and needs replacement.
2. Pull the battery cover off in the direction shown below.
3. Pull out the battery with a sharp objects such as pen. Keep exhausted battery from reaching by the children.
4. 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.
5. Install the battery cover back.







### Display on the LCD

M: Last measured temperature.



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

### Troubleshooting

Error message	Problem	Solution
	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.
	Temperature taken is higher than 42.9°C (109.2°F)	Take a new temperature measurement after 6 sec.
	Temperature taken is lower than 32°C (89.6°F)	Take a new temperature measurement after 6 sec.
	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 sterilize the probe with ethyl alcohol.
2. Don't let the unit contact any chemical thinner.
3. Not waterproof. Do not soak the display in water. Only the probe is waterproof.

### Caution



- Do not bend or drop the thermometer. It is not shockproof.
- Do not boil probe for disinfect.
- Do not store the unit under direct sunlight, at a high temperature, in high humidity or dust. Neither store the unit under the sunlight, nor at the high temperature or humidity.
- Do not disassemble. See BATTERY REPLACEMENT to replace battery.
- Avoid strong electromagnetic interference such as microwave ovens and cell phones.

- Please be noticed to keep the probe dry before putting the thermometer into the carry case.
- The thermometer contains small parts (battery, etc.) that can be swallowed by children. Therefore never leave the thermometer unattended to children.
- The thermometer should be cleaned after measurement no matter the probe cover has been installed or not.
- Battery should not be charged or placed into extreme heat as it may explode.
- Do not use the thermometer in ear. Intended use is for oral, axillary and rectal measurement.
- Use of the probe cover may result in a 0.1°C(0.2°F) discrepancy from actual temperature.
- 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.
- Please note that this is a home healthcare product only, and it is not intended to serve as a substitute for the advice of a physician or medical professional.
- Do not use this device for diagnosis or treatment of any health problem on disease. Measurement results are for reference only. Contact your physician if you have or suspect any medical 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.
- This device is for oral, axillary and rectal use only.
- High, prolonged fever requires medical attention especially for young children. Please contact your physician.
- For save reason, during children's temperature measurement, please keep them from crying, walking, talking and any related dangerous activities.

## Specifications

Measurement Range	32.0°C–42.9°C (89.6–109.2°F)
Display	LCD 3 1/2 digits with °C
Display resolution	0.1°C or 0.2°F
Accuracy	±0.1°C/35.5°C–42.0°C (±0.2°F/95.9°F–107.6°F) ±0.2°C under 35.5°C or over 42.0°C (±0.4°F under 95.9°F or over 107.6°F) at standard room temperature 25.0°C (77.0°F)
Memory	For storing the last measured value
Battery	One 1.5 V DC button size battery (SR41 or LR41)
Battery Life	Approx. 1500 times operation or 1 year with 1–2 measurement per day including standby mode.
Dimension	TG100 : 12.2x2.0x1.25cm TG120 : 12.2x2.0x1.1cm
Weight	TG100 : 8 grams including battery TG120 : 9.5 grams including battery
Alarm	beep sounds (beep-beep-beep 10 times) when peak temperature is reached
Environmental for using	Temperature: 5–40°C (41°F–104°F) Humidity: ≤95%RH
Storage and transportation condition	Temperature: -25–55°C (-13°F–131°F) Humidity: ≤95%RH
Accessories	battery, carry case, instruction manual
Safety classification	⚠ Type B Applied Part


## EMC guidance and manufacturer's declaration

Guidance and manufacturer's declaration-electromagnetic emissions		
The TG100/TG120 is intended for use in the electromagnetic environment specified below. The customer or the user of the TG100/TG120 should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The TG100/TG120 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 TG100/TG120 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 TG100/TG120 is intended for use in the electromagnetic environment specified below. The customer or the user of the TG100/TG120 should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Electro-static 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	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	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 5s	Not applicable	Mains power quality should be that of a typical commercial or hospital environment. If the user of the TG100/TG120 requires continued operation during power mains interruptions, it is recommended that the TG100/TG120 be powered from an uninterruptible power supply or a battery.
Power frequency magnetic field IEC 61000-4-8	3 A/m	3 A/m	The TG100/TG120 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 TG100/TG120 is intended for use in the electromagnetic environment specified below. The customer or the user of the TG100/TG120 should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
			Portable and mobile RF communications equipment should be used no closer to any part of the TG100/TG120 including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.

Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	Not applicable	Recommended separation distance: $d = 1,2 \sqrt{P}$ $d = 1,2 \sqrt{P} \cdot 80\text{MHz to } 800\text{ MHz}$ $d = 2,3 \sqrt{P} \cdot 800\text{MHz to } 2,5\text{ GHz}$ 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 TG100/TG120 is used exceeds the applicable RF compliance level above, the TG100/TG120 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the TG100/TG120. b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.			

Recommended separation distance between portable and mobile RF communications equipment and the TG100/TG120			
The TG100/TG120 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the TG100/TG120 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the TG100/TG120 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 metres (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. 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.			

## Warranty

This instrument is covered by a **5 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 rossmax service.

## Product Information

Date of purchase:

Store where purchased:

Price Paid (excl. Tax):

Purchase for:

Rossmax International Ltd.  
12F, No. 189, Kang Chien Rd., Taipei, 114,  
Taiwan.  
Rossmax Swiss GmbH,  
Tramstrasse 16, CH-9442 Berneck, Switzerland



www.rossmax.com

OEM: TG100, TG120, EN, ver1.303  
INOTG1000000000XX