TeleRPM™

PRODUCT GUIDE

Blood Pressure Monitor

Model: TMB-2092-G

Contact Information
Please contact your program's customer support. TeleRPM will not be able to directly assist customers.

Manufactured by: Guangdong Transtek Medical Electronics Co., Ltd.
Zone A, No.105, Dongli Road, Torch Development District, 528437 Zhongshan, Guangdong, China.

version: 1.0

技术要求:
1、黏合不可露胶
2、保持印刷面板上的清洁
3、注意套印的准确性
4、表面处理不可爆开
5、结构工艺以结构受控图为准
6、颜色参考:

广东乐心医疗电子股份有限公司
2022-03-31
受 控 文 件

产品型号	TMB-2092-G		材质	105g哑粉纸	零件名称 TMB-2092-G	
产品名称	血压计		尺寸	210*145mm（折后105*145 mm）		
对应结构图纸	-		印色	CMYK		
	比例	1:1	表面处理	-	零件图号 TMB-2092-G	
	单位	mm	设计	张媛 2022-08-09		
Transtek 广东乐心医疗电子股份有限公司			审核		共 15 张	第 1 张
			批准		版 本	A/0

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INTRODUCTION

General Description

Thank you for choosing this TeleRPM Blood Pressure Monitor. Check that the device packaging has not been tampered with and make sure that all contents are present. Before use, ensure that there is no visible damage to the device or accessories and that all packaging material has been removed. If you have any doubts, do not use the device and contact your retailer or the specified Customer Services address.
Please read this manual to know how to use your Blood Pressure Monitor safely and correctly. Keep the manual well for future reference.
Key features:

- One-Click Operation
- 4G Any time, Anywhere
- AC Adapter Available (not included)
- Antimicrobial material, the antibacterial activity rate>99.9%
- LATEX FREE
- Measurement Reminder

Indications for Use

This TeleRPM Blood Pressure Monitor TMB-2092-G is a digital monitor intended for use in measuring blood pressure and heartbeat rate with arm circumference ranging from 22 cm to 45 cm. It is intended for adult indoor use only. The device can be used to detect irregular heartbeat.

Contraindications

1. Consult a medical professional before using this device if you have an implanted cardiac device, such as a pacemaker or defibrillator.
2. Consult a medical professional before using this device during pregnancy.

Measurement Principle

This product uses the Oscillometric Measuring method to detect blood pressure.
Before every measurement, the unit establishes a “zero pressure” equivalent to the atmospheric pressure. Then it starts inflating the arm cuff, meanwhile, the unit detects pressure oscillations generated by beat-to-beat pulsatile, which is used to determine the systolic and diastolic pressure, and also pulse rate.

INTRODUCTION

Safety Information

The symbols below might be in the user manual, labeling or other component. They are the requirement of standard and using.

	Refer to instruction manual/booklet To signify that the instruction manual/ booklet must be read.		Type BF applied part
	Consult instructions for use or consult electronic instructions for use	SN	Serial Number
	Direct Current		Polarity of d.c. power connector
	Class II Equipment		For indoor use only
LOT	Batch code		Manufacturer
	Date of manufacture		Temperature limit
	Atmospheric pressure limitation		Humidity limitation
	General symbol for recovery/recyclable		
	MR Unsafe To identify an item which poses unacceptable risks to the patient, medical staff or other persons within the MR environment.		
	Caution Indicates that caution is necessary when operating the device or control close to where the symbol is placed, or that the current situation needs operator awareness or operator action in order to avoid undesirable consequences.		
	The symbol indicates that the product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.		

INTRODUCTION

CAUTION

* This device is intended for indoor use.
* This device is portable, but it is not intended for use during patient transport.
* This device is not suitable for continuous monitoring during medical emergencies or operations.
* This device is intended for no-invasive measuring and monitoring of arterial blood pressure. It is not intended for use on extremities other than the arm, or for any purpose other than obtaining a blood pressure measurement.
* This device is for adults. Do not use this device on neonates or infants. Do not use it on children unless otherwise instructed by a medical professional.
* The effectiveness of this device has not been established for use:
  -on users in pregnant, including pre-eclamptic, patients,
  -on users with implanted, electrical devices, such as a pacemaker or defibrillator,
  -on users with common arrhythmias such as atria ventricular, premature beats or atrial fibrillation,
  -on users with peripheral arterial disease,
  -on users undergoing intravascular therapy, or with arteriovenous (AV) shunt,
Consult a medical professional before use.
* Do not use this device for diagnosis or treatment of any health problem or disease. Contact your physician if you have or suspect any medical problem. Do not change your medications without the advice of your physician or health care professional.
* If you are taking medication, consult your physician to determine the proper time to measure your blood pressure.
* This device may be used only for the intended use described in this manual, the manufacturer shall have no liability for any incidental, consequential, or special damages caused by misuse or abuse.
* Report any unexpected operation or events to the manufacturer.
* Do not apply the cuff on an arm that has an intravenous drip or a blood transfusion attached.
* Warning: Do not kink, fold, stretch, compress, or otherwise deform the tube during measuring, as the cuff pressure might continuously increase, which could prevent blood flow and result injury.
* Warning: Taking blood pressure measurements too frequently could disrupt blood circulation and cause injuries.
* Warning: Do not apply cuff to areas on patient where skin is delicate or damaged. Check cuff site frequently for irritation.
* Warning: Do not place the cuff on the arm of a person whose arteries or veins are undergoing medical treatment, i.e. intra-vascular access or intra-vascular therapy or an arteriovenous (A-V) shunt, which could disrupt blood circulation and cause injuries.
* Do not place the cuff on the arm on the same side of a mastectomy (especially when lymph nodes have been removed). it is recommended to take measurements on the unaffected side.
* Do not wrap the cuff on the same arm to which another monitoring device is applied. One or both devices could temporarily stop functioning if you try to use them at the same time.
* Please check that the operation of the device do not result in prolonged impairment of patient blood circulation.
* Warning: On the rare occasion of a fault causing the cuff to remain fully inflated during measurement, loosen and remove the cuff immediately. Prolonged high pressure applied to the arm (cuff pressure >300 mmHg or constant pressure >15 mmHg for more than 3 minutes) might lead to bruising and discolored skin.
* Warning: Do not use this device with high-frequency (HF) surgical equipment at the same time.

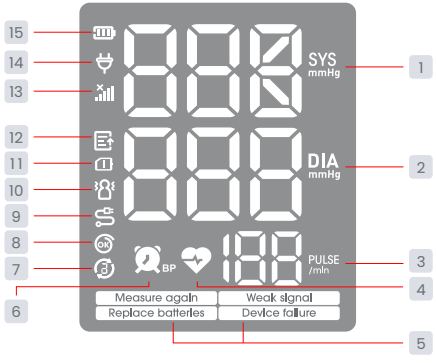
INTRODUCTION

CAUTION

* Warning: This device is not AP/APG equipment. Do not use the device where flammable anesthetic are present, or in environments mixture with air of with oxygen or nitrous oxide.
* The device contains sensitive electronic components.To avoid measurement errors, avoid taking blood pressure measurements near a strong electromagnetic field radiated interference signal or electrical fast transient/burst signal.
* Wireless communication equipment, such as wireless home network devices, mobile phones, cordless telephones and their base stations, walkie-talkies may cause interference that may affect the accuracy of measurements. A minimum distance of 1 foot (30 cm) should be kept from such devices during a measurement.
* You can use this device to take your own measurement, no third-party operator is required.
* Please use the device under the environment which is provided in the user manual. Otherwise, the performance and lifetime of the device will be impacted and reduced.
* The device may require up to 30 minutes to warm up / cool down from the minimum / maximum storage temperature before it is ready for use.
* Warning: Excessive cuff tube lengths could cause strangulation if you don't manage them properly.
* Warning: Do not touch output of the batteries/adapter and the user simultaneously.
* Adapter is specified as a part of ME EQUIPMENT.
* Warning: The power cord is considered the disconnect device for isolating this equipment from supply mains. Do not position the equipment so that it is difficult to reach or disconnect.
* The blood pressure monitor, its adapter, and the cuff are suitable for use within the patient environment.
* Warning: Do not use this device if you are allergic to polyester, nylon, or plastic.
* Warning: Only use accessories approved by manufacturer. Using unapproved accessories might cause damage to the unit and injure users.
* Warning: If you experience discomfort during a measurement, such as pain in the arm or other complaints, press the Power button immediately to release the air from the cuff.
* No calibration is required within two years of reliable service.
* Do not attempt to repair the unit yourself if it malfunctions. Only have repairs carried out by authorized service centers.
* At the request of authorized service personnel, circuit diagrams, component part lists, descriptions, and calibration procedures will be made available by the manufacturer or distributor.
* It is recommended that the performance should be checked after repair, maintenance, and every two years of use, by retesting the requirements in limits of the error of the cuff pressure indication and air leakage (testing at least at 50 mmHg and 200 mmHg).
* Warning: Do not use the device while under maintenance, or being serviced.
* Store your device, cuff and adapter in a clean and dry place, protect it against extreme moisture, heat, lint, dust and direct sunlight. Never place any heavy objects on it.
* Make sure the rubber tube of the cuff is not squeezed, stretched, or kinked during storage.
* Warning: Keep the device, cuff, and batteries away from children as they may pose a risk of choking or strangulation if used improperly.
* Clean both device and cuff with a soft, dry cloth. If necessary use a dampened cloth and natural detergent. Do not use alcohol, benzene, or other harsh chemicals.
* Do not wash the cuff in a washing machine or dishwasher!
* The service life of the cuff may vary by the frequency of washing, skin condition, and storage state. The typical service life is 10000 times.
* Dispose of accessories, detachable parts, and the device according to the local guidelines.

INTRODUCTION

Display and Symbols



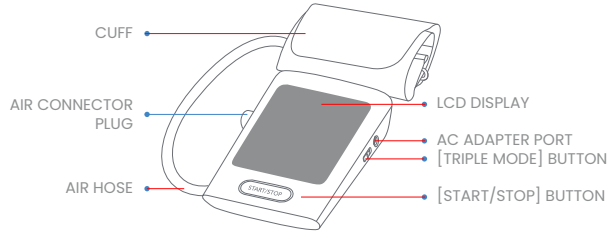
SYMBOL	EXPLANATION
1	Systolic blood pressure reading
2	Diastolic blood pressure reading
3	Pulse display
4	**Irregular heartbeat symbol** Appears when decteted during a measurement. Refer to page 20 for more information.
5	**Warning messages,** refer to page 22 for more information.
6	**Measurement reminder icon** When it is activated, appear on the display and remind the user to measure at the certain time.

INTRODUCTION

SYMBOL	EXPLANATION
7	**Triple Measurement icon** Indicates the current measurement mode is [Triple Mode], and which measurement progress ① ② ③ it is.
8	**Cuff wearing detection icon** will appear if the cuff is not wrapped or wrapped too loose or a leak of the cuff is detected when measuring.
9	**Cuff abnormal icon** Appears when the air connector plug is not properly plugged in .
10	**Excessive body motion detector icon** Appears when talking, moving, or shaking of the arm with the cuff on is detected during a measurement. **NOTE:** The measured blood pressure reading may not be accurate when this symbol is displayed with the reading.
11	**SIM card error icon** Appears when the SIM card is abnormal or the SIM is not properly plugged in.
12	**Data pending to transmit icon** Appears when the data transmission failed. Up to 500 measurements can be temporarily saved on the device and send to your account when the Cellular internet is available.
13	**Signal indication icon** Indicates no cellular coverage or cellular connection error.
14	**Adapter Insert Indicator** Appears when the power is supplied from the adapter.
15	**Battery Indicator** Indicate the current battery.
	Low battery symbol Indicate the battery is too low when appears with Replace batteries .

INTRODUCTION

Name of Each Part



Contents/Product Includes

1 TeleRPM Blood Pressure Monitor (TMB-2092-G)
1 Cuff (Type BF applied part)
- 22–45 cm (8.6–17.7 inch) upper arm cuff

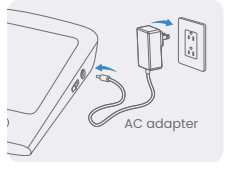
1 Product Guide
1 Quick Start Guide
4 “AA” size batteries (Batteries were installed in the device)

BEFORE YOU START

The Choice of Power Supply

1. DC 6V, 4 AA size batteries
2. AC adapter, 6V ⎓ 1A

Please use the AC adapter authorized by the manufacturer! (Not included)
Please unplug the adapter to depart from the using utility power, when you finish the measurement.

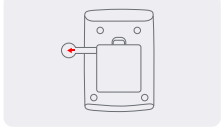


CAUTION

In order to get the best effect and protect your monitor, please use the right batteries and special power adapter which complies with local safety standard.

Installing and Replacing the Batteries

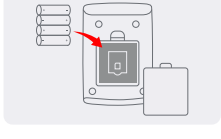
Please pull the plastic insulating strip before first use.
The batteries were installed.



Replace the batteries whenever the below happens.

- Replace batteries appear on the LCD display.
- The display dims.
- The display does not light up.

Steps of replacing the batteries:



- Slide off the battery cover.
- Replace 4 AA size batteries according to the polarity indications inside the battery compartment.
- Place back the battery cover.

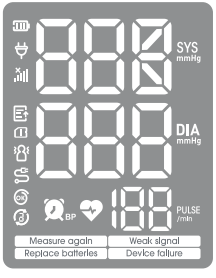
CAUTION

- Do not use new and used batteries together.
- Do not use different types of batteries together.
- Do not dispose the batteries in fire. Batteries may explode or leak.
- Remove batteries if the device is not likely to be used for some time.
- Worn batteries are harmful to the environment. Do not dispose with daily garbage.
- Dispose of the old batteries following your local recycling guidelines.

BEFORE YOU START

Note A:
When you pull the plastic insulating strip or replace new batteries into the device, the LCD displays as below first, and then it will turn off after about 5 seconds.

LCD display



The device will then search and pair with the mobile network automatically after it is turned off. If unsuccessful, the monitor will stop searching and enter the standby mode.

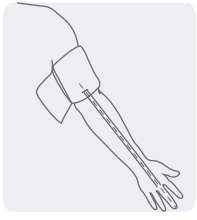
Note B:
This device is equipped with function of Measurement Reminder. Contact Customer Support to enable or disable it, maximum 5 group of measurement Reminder (by default, the monitor will stop searching and enter the standby mode.

Once enabled, every day when the appointment time is reached, the blue LED of the device button will light up in the form of breathing light to remind the user to measure, and the breathing light will be cancelled after the startup or 30 minutes without operation. (If the user does not measure the blood pressure according to the reminder, the reminder icon of measurement will not be displayed when the user starts the measurement next time)

MEASUREMENT

Applying the cuff

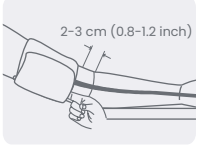
1. Remove all jewelry, such as watches and bracelets from your left arm.
   Note: If your doctor has diagnosed you with poor circulation in your left arm, use your right arm.



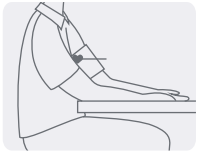
2. Roll or push up your sleeve to expose the skin. Make sure your sleeve is not too tight.

3. Hold your arm with palm facing up and tie the cuff on your upper arm, then align the air tube toward the center of your arm.

4. Make sure the bottom edge of the arm cuff 2-3 cm (0.8-1.2 inch) above the inside elbow. Then wrap the cuff securely.
   Note: The cuff should be snug but not too tight. You should be able to insert one finger between the cuff and your arm.



5. Sit upright in a comfortable chair with your back against the backrest of the chair. Keep your feet flat and your legs uncrossed.
   Place your arm resting comfortably on a flat table. The cuff worn on your arm should be placed at the same level as your right atrium of the heart.



6. Take 5-6 deep breaths and let's start measuring!

Helpful tips to help ensure an accurate reading

- Take the measurement in a silent room.
- Rest for 5 minutes before a measurement.
- Be relaxed, remain still and DO NOT talk while taking a measurement.
- For a meaningful comparison, try to measure under similar conditions. For example, take daily measurements at approximately the same time, on the same arm, or as directed by a physician.

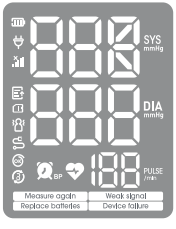
MEASUREMENT

A: Using Single Measurement Mode

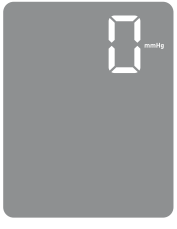
Start a measurement

When the "TRIPLE MODE" button is located on "1", the monitor is under the Single Measurement mode.
When the monitor is OFF, press the "START/STOP" button to turn on, and then it will complete the whole measurement automatically.

LCD display



Adjust the zero point

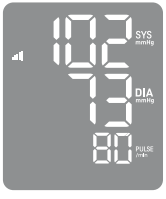


Inflating and measuring

Display the measured result

MEASUREMENT

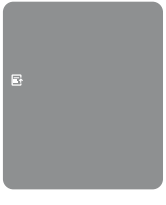
After the measurement, the data transmission starts. The symbol will appear on the LCD.



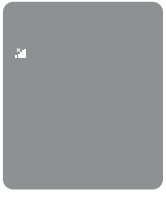
If successful, the symbol will disappear and the LCD will display OK .

Press "START/STOP" button to turn off the device, otherwise it will power off automatically within several seconds.

During the data transmission, if the data transmission error or server connection error occurs, the symbol will appear on the LCD. Up to 500 measurements can be temporarily saved on the device and send to your account when the Cellular internet is available. Refer to page 22 for more information.



During the data transmission, if no cellular coverage or cellular connection error occurs, the symbol will appear on the LCD. Refer to page 22 for more information.



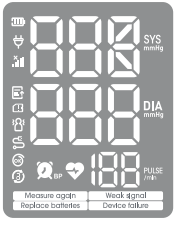
MEASUREMENT

B: Using Triple Measurement Mode

When the "TRIPLE MODE" buton is located on "3", the monitor is under the Triple mode.

1. When the monitor is off, press the "START/STOP" button to turn on, and then it will complete the whole measurement automatically.

LCD display



Display the zero point

Inflating and measuring

MEASUREMENT

2. When the first measurement is done, it won't show the readings. It will start the second measurement after 60 seconds.

3. Then it will repeat the steps to finish the third measurement. When three measurements are done, the LCD will display the average of 3 readings.

Tip:
If the measurement fails in the process of the Triple Measurement Mode, it will report an error and repeat the current measurement. If the error occurs for 3 times in a row, the Triple Measurement will automatically quit.

4. After the measurement, it will repeat the data transmission steps as described on pape 14.

Tip:
You can press the "START/STOP" button to stop the measurement any time.

INFORMATION FOR USER

Tips for Measurement

Measurements may be inaccurate if taken in the following circumstances.

Within 1 hour after dinner or drinking

Immediate measurement after tea, coffee, smoking

Within 20 minutes after taking a bath

When moving your fingers or talking

In a very cold environment

When you want to urine

INFORMATION FOR USER

Maintenance

In order to get the best performance, please follow the instructions below.

Put in a dry place and avoid the sunshine

Avoid touching water, clean it with a dry cloth in case

Avoid intense shaking and collisions

Avoid dusty and unstable temperature environment

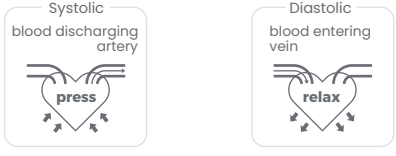
Avoid washing the cuff

Using wet cloths to remove dirt

ABOUT BLOOD PRESSURE

What are systolic pressure and diastolic pressure?

When ventricles contract and pump blood out of the heart, the blood pressure reaches its maximum value in the cycle, which is called systolic pressure. When the ventricles relax, the blood pressure reaches its minimum value in the cycle, which is called diastolic pressure.



What is the standard blood pressure classification?

The following chart is the standard blood pressure classification published by American Heart Association (AHA).

This chart reflects blood pressure categories defined by American Heart Association.			
Blood Pressure Category	Systolic mmHg (upper#)		Diastolic mmHg (lower#)
Normal	less than 120	and	less than 80
Elevated	120-129	and	less than 80
High Blood Pressure (Hypertension) Stage 1	130-139	or	80-89
High Blood Pressure (Hypertension) Stage 2	140 or higher	or	90 or higher
Hypertensive Crisis (Consult your doctor immediately)	Higher than 180	and/or	Higher than 120

ABOUT BLOOD PRESSURE

CAUTION

Only a physician can tell your normal BP range. Please contact a physician if your measuring result falls out of the range. Please note that only a physician can tell whether your blood pressure value has reached a dangerous point.

Irregular Heartbeat Detector

An irregular heartbeat is detected when a heartbeat rhythm varies while the unit is measuring the systolic and diastolic blood pressure. During each measurement, the monitor records all the pulse intervals and calculates the average; if there are two or more pulse intervals, the difference between each interval and the average is more than the average value of ±25%, or there are four or more pulse intervals, the difference between each interval and the average is more than the average value of ±15%, the irregular heartbeat symbol appears on the display when the measurement results are appeared.

CAUTION

The appearance of the IHB icon indicates that a pulse irregularity consistent with an irregular heart-beat was detected during measurement. Usually this is NOT a cause for concern. However, if the symbol appears often, we recommend you seek medical advice. Please note that the device does not replace a cardiac examination, but serves to detect pulse irregularities at an early stage.

ABOUT BLOOD PRESSURE

Why does my blood pressure fluctuate throughout the day?

1. Individual blood pressure varies multiple times everyday. It is also affected by the way you tie your cuff and your measurement position, so please take the measurement under the same conditions.
2. If the person takes medicine, the pressure will vary more.
3. Wait at least 3 minutes for another measurement.

Why do I get different blood pressure at home compared to the hospital?

The blood pressure is different even throughout the day due to weather, emotion, exercise etc. Also, there is the "white coat" effect, which means blood pressure usually increases in clinical settings.

What you need to pay attention to when you measure your blood pressure at home:

If the cuff is tied properly.

If the cuff is too tight or too loose.

If the cuff is tied on the upper arm.

If you feel anxious.

Taking 2-3 deep breaths before beginning will be better for measuring.

Advice: Relax yourself for 4-5 minutes until you calm down.

Is the result the same if measuring on the right arm?

It is ok for both arms, but there will be some different results for different people.

We suggest you measure the same arm every time.

TROUBLE SHOOTING

PROBLEM	DISPLAY	CHECK THIS	REMEDY
No power	Display can not light up.	Batteries are exhausted.	Replace with new batteries.
		Batteries are installed incorrectly or adapter is not plugged in properly.	Install the batteries or plug in the adapter properly.
DC Power Error	Err dc	The DC supply voltage is too high or too low.	Replace with the authorized adapter.
Low Battery	Replace batteries	The battery is too low.	Replace with new batteries.
Error message		The cuff is not wrapped or wrapped too loose.	Wrap and fasten the cuff and measure again.
		The air connector plug is not properly plugged in or a leak is detected.	Insert the air connector plug correctly, then measure again. If the issue persists, check the cuff leakage.
	Measure again	Excessive body motion (such as shaking of the arm with the cuff on) is detected.	Relax and then measure again. When the issue persists twice, E0 I will display on the LCD, please contact customer support.
	Measure again	Pulse is not detected during measuring.	Relax and then measure again. When the issue persists twice, E0 I will display on the LCD, please contact customer support or contact your physician.
	Out Measure again	Out of measurement range	
		Data transmission error or Server connection error	Move to another area, preferably closer to a window, try again. Use the device at a location where you get strong cellular signal with your mobile phone. If the issue persists, contact customer support.
	Weak signal	No cellular coverage or Cellular connection error	
		SIM card is not detected or SIM card is abnormal.	Check and re-install the SIM card. If the issue persists, contact customer support.
	Device failure	Hardware error	Retake measurement. If the issue persists, contact customer support.

NOTE: If the product still does not work, contact the Customer Service. Under no circumstance should you disassemble or attempt to repair the unit by yourself.

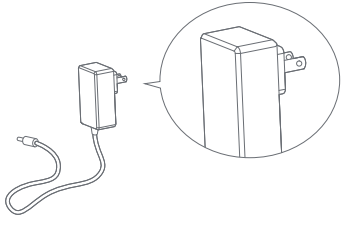
SPECIFICATIONS

Product Name	TeleRPM Blood Pressure Monitor
External dimensions	Approx. 148.3 mm × 100.5 mm × 52 mm
Display mode	Digital LCD V.A. 79 mm × 93 mm
Weight	Approx. 325 g (Excluding the batteries and cuff)
Measurement mode	Oscillographic testing mode
Mode of operation	Continuous operation
Measurement range	Rated cuff pressure: 0 mmHg ~ 299 mmHg Measurement pressure: SYS: 60 mmHg ~ 230 mmHg DIA: 40 mmHg ~ 130 mmHg Pulse value: (40-199) beat/minute
Accuracy	Pressure: 41°F-104°F within ±3 mmHg Pulse value: ±5%
Normal working condition	Temperature: +41°F to +104°F Relative humidity: 15% to 90%, non-condensing, but not requiring a water vapour partial pressure greater than 50 hPa Atmospheric pressure: 700 hPa to 1060 hPa
Storage condition & transportation condition	Temperature: -4°F to +140°F Relative humidity: ≤93%, non-condensing, at a water vapour pressure up to 50 hPa Atmospheric pressure: 500 hPa to 1060 hPa
Measurement perimeter of the upper arm	About 22-45 cm (8.6-17.7 inch)
Degree of protection	Type BF applied part
Device Classification	Battery Powered Mode: Internally Powered ME Equipment AC Adaptor Powered Mode: Class II ME Equipment
Protection against ingress of water	IP21, It means the device could be protected against solid foreign objects of 12.5 mm Φ and greater, and against vertically falling water drops.
Expected Lifetime	5 years or 10000 measurements (may vary based on usage conditions)

WARNING: No modification of this equipment is allowed.

AUTHORIZED COMPONENT

Please use the authorized adapter (Not included).



Adapter
Type: BLJ06L060100P-U
Input: 100-240V, 50-60Hz, 0.2A max
Output: 6V ⎓ 1000 mA

EMC GUIDANCE

The ME EQUIPMENT or ME SYSTEM is suitable for home healthcare environments.
Warning: Don't be near the active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances is high.
Warning: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
Warning: Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
Warning: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the equipment TMB-2092-G including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Technical description:
1. All necessary instructions for maintaining BASIC SAFETY and ESSENTIAL PERFORMANCE with regard to electromagnetic disturbances for the excepted service life.
2. Guidance and manufacturer's declaration-electromagnetic emissions and Immunity.

Table 1

Guidance and manufacturer's declaration - electromagnetic emissions	
Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	Class A
Voltage fluctuations/flicker emissions IEC 61000-3-3	Comply

EMC GUIDANCE

Table 2

Guidance and manufacturer's declaration – electromagnetic Immunity		
Immunity Test	IEC 60601-1-2 Test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV signal input/output 100 kHz repetition frequency	±2 kV for power supply lines NA 100 kHz repetition frequency
Surge IEC61000-4-5	±0.5 kV, ±1 kV, differential mode ±0.5 kV, ±1 kV, ±2 kV common mode	±0.5 kV, ±1 kV differential mode N/A
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% UT ; 0,5 cycle. At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°. 0% UT ; 1 cycle and 70% UT ; 25/30 cycles; Single phase: at 0°. 0% UT ; 250 / 300 cycle	0% UT ; 0,5 cycle. At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°. 0% UT ; 1 cycle and 70% UT ; 25/30 cycles; Single phase: at 0°. 0% UT ; 250 / 300 cycle
Power frequency magnetic field IEC 61000-4-8	30 A/m 50 Hz / 60 Hz	30 A/m 50 Hz / 60 Hz
Conduced RF IEC61000-4-6	3 V 0,15 MHz – 80 MHz 6 V in ISM and amateur radio bands between 0,15 MHz and 80 MHz 80% AM at 1 kHz	3 V 0,15 MHz – 80 MHz 6 V in ISM and amateur radio bands between 0,15 MHz and 80 MHz 80% AM at 1 kHz
Radiated RF IEC61000-4-3	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
NOTE U_T is the a.c. mains voltage prior to application of the test level.		

EMC GUIDANCE

Table 3

Guidance and manufacturer's declaration - electromagnetic Immunity

Radiated RF IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment)	Test Frequency (MHz)	Band (MHz)	Service	Modulation	Maximum Power (W)	Distance (m)	IEC 60601-1-2 Test Level (V/m)	Compliance level (V/m)
	385	380-390	TETRA 400	Pulse modulation 18 Hz	1.8	0.3	27	27
	450	430-470	GMRS 460, FRS 460	FM ± 5k Hz deviation 1 kHz sine	2	0.3	28	28
	710	704-787	LTE Band 13, 17	Pulse modulation 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 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 217 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 217 Hz	2	0.3	28	28
	5240	5100-5800	WLAN 802.11 a/n	Pulse modulation 217 Hz	0.2	0.3	9	9
	5500							
	5785							

FCC Statement

FCC ID: OU9TMB2092-G

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.