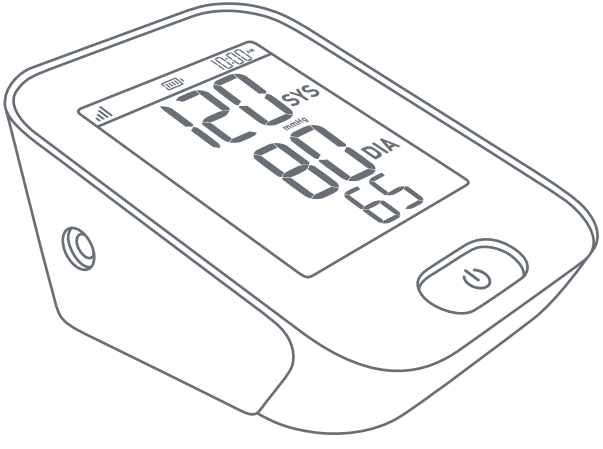
TRANSTEK

User Manual

Blood Pressure Monitor

Model: LS802-GP



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ENG

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CE 0123

Version: B/0
Rev. Date: 2026-07-28

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General Description

Thank you for choosing this arm type Blood Pressure Monitor (LS802-GP). 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:

Indications for Use

This Blood Pressure Monitor LS802-GP is intended for use in measuring blood pressure and pulse rate with arm circumference ranging from 22cm to 45cm. It is intended for adult indoor use only.

Indication

This device is used by healthy individuals, patients with hypertension, patients with health-conscious individuals, in a general household situation for the following purpose.

• Measure blood pressure and pulse rate

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.

Contraindications

- Consult a medical professional before using this device during pregnancy.
- DO NOT use this monitor on an injured arm or an arm under medical treatment.
- DO NOT apply the arm cuff on your arm while on an intravenous drip or blood transfusion.
- DO NOT use this monitor on infants, toddlers, children or persons who cannot express.

Side Effects

- Taking measurements more often than necessary may cause compression injury, arm congestion or discomfort.
- If the cleaning and disinfection process is not carried out in accordance with the instructions in this user manual, it may lead to cross-infection.

Clinical Benefits

Support long-term monitoring, clinical blood pressure management, and general assessment of cardiovascular function.

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		General symbol for recovery/recyclable
	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
CE 0123	Symbol for “Complies with EU 2017/745”	MD	Medical Device
UDI	Unique device identifier	SN	Serial Number
EU REP	Authorized representative in the European Community/ European Union		Indicates the entity importing the medical device into the locale
	Indicates that the original medical device informationhas undergone a translation which supplements or replaces the original information.		
	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.		

Precaution

* This device is intended for indoor, home use and is not intended for self-use in public areas.
* 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 non-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 and adolescents unless otherwise instructed by a medical professional.
* Consult with your physician before using this monitor if you suffer from the following conditions:
  -common arrhythmias such as premature ventricular beats or atrial fibrillation;
  -peripheral arterial disease; pregnancy; preeclampsia; implantation with electrical devices;
  -undergoing intravascular therapy; arteriovenous shunt or mastectomy.
  Please note that any of these conditions may affect measurement readings, in addition to patient motion, trembling or shivering.
* DO NOT self-diagnose the measurement results and start treatment by yourself. The measurement results given by this device is not a diagnosis. ALWAYS consult your doctor for evaluation of the results and treatment.
* DO NOT adjust medication based on readings from this blood pressure monitor. Take medication as prescribed by your physician. ONLY a physician is qualified to diagnose and treat high blood pressure.
* 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.
* 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.
* The blood pressure monitor, its adapter, and the cuff are suitable for use within the patient environment.
* Although the device has been designed, verified and validated to reduce risks as far as possible, residual clinical risks may still remain, including cross-infection, compression injury, arm congestion or discomfort, invalid measurement or delayed treatment, clinical action taken without physician confirmation, and misinterpretation or over-reliance on device output. Users shall follow the warnings, precautions, cleaning/disinfection instructions and measurement instructions provided in this IFU, and seek medical advice before making any diagnosis, medication change or treatment decision.
* Do not wash the cuff in a washing machine or dishwasher !
* 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.
* Blood Pressure Monitor is intended for use by medical staffs and lay persons, and patient is also an intended user or operater.

⚠ Caution

* Do not attempt to repair the unit yourself if it malfunctions. Only have repairs carried out byauthorized service centers.
* 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). Please contact manufacturer or distributor for authorized service personnel.
* 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.
* Dispose of accessories, detachable parts, and the device according to the local guidelines.

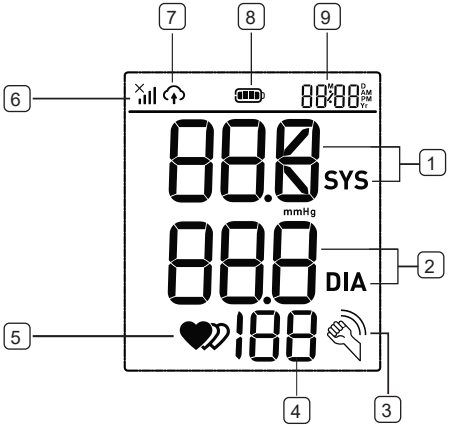
Warning

* Do not apply the cuff on an arm that has an intravenous drip or a blood transfusion attached.
* 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.
* Taking blood pressure measurements too frequently could disrupt blood circulation and cause injuries.
* Do not apply cuff to areas on patient where skin is delicate or damaged. Check cuff site frequently for irritation.
* 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.
* Warning: Please check (for example, by observation of the limb concerned) that the operation of the device does 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.
* Do not use this device with high-frequency (HF) surgical equipment at the same time.
* This device is not used in conjunction with oxygen rich environments, not intended for use with flammable anaesthetics, not intended for use in conjunction with flammable agents.
* Excessive cuff tube lengths could cause strangulation if you don't manage them properly.
* Do not touch output of the batteries/adapter and the user simultaneously.
* 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.
* Do not use this device if you are allergic to polyester, nylon, or plastic.
* Only use accessories approved by manufacturer. Using unapproved accessories might cause damage to the unit and injure users.
* 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.
* Do not use the device while under maintenance, or being serviced.
* The air tube poses a risk of strangulation. Furthermore, the small parts of product and batteries present a choking hazard if swallowed. They should therefore always be kept away from infants/children.
* Sensor degradation or looseness may reduce performance of device or cause other problems.

Notice

* You can use this device to take your own measurement, no third-party operator is required.
* Adapter is specified as a part of ME EQUIPMENT.
* 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.
* The expected lifetime of the cuff may vary by the frequency of washing, skin condition, and storage state.
* Please report to the manufacturer and the competent authority of the Member State / the FDA in which you are established about any serious incident that has occurred in relation to this device.

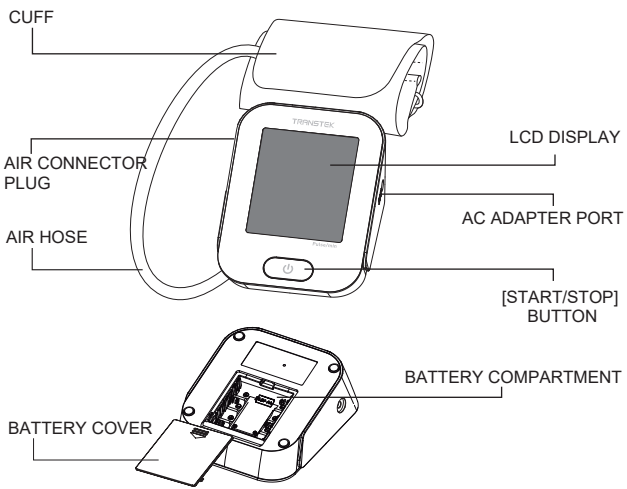
♥ Display and Symbols



1. Systolic blood pressure reading
2. Diastolic blood pressure reading
3. Excessive body motion detector symbol
4. Pulse display
5. Pulse rate symbol / Irregular pulse rate
6. Signal indication
7. Data transmission indication
8. Battery symbol / Low battery symbol
9. Date / Time display

SYMBOL	EXPLANATION	
1	**Systolic blood pressure reading**	
2	**Diastolic blood pressure reading**	
3		**Excessive body motion detector symbol** 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.
4	**Pulse display**	
5		**Pulse rate symbol** Flashes when detected during the measurement.
		Irregular pulse rate symbol Appears when detected during a measurement. Refer to page 17 for more information.
6		**Signal indication** Indicates the signal situation in the communication process.
7		**Data transmission indication** Appears on the LCD display and flash when the measurement data is being sent. If the data transmission is a success, oK is shown.
8		**Battery symbol / Low battery symbol** Indicate the battery is low when both symbols Lo appear on the LCD display.
9	**Date / Time display**	

♥ Name of Each Part

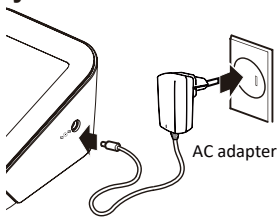


♥ Contents/Product Includes

- **Blood Pressure Monitor (LS802-GP)**
- **Cuff**
  Upper arm circumference: 22-42 cm
  Upper arm circumference: 22-32 cm (optional)
  Upper arm circumference: 22-45 cm (optional)
- **User Manual**
- **4x AA batteries (optional)**
- **AC Adapter (optional)**
  Reference model: BLJ06L060100P-V (with European plug)
  Reference model: BLJ06L060100P-S (with Australian plug)
  Reference model: BLJ06L060100P-B (with UK plug)

♥ 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! (optional)
   Please unplug the adapter to depart from the using utility power, when you finish the measurement.

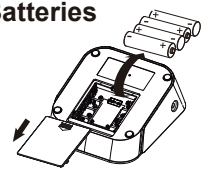


⚠ CAUTION

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

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



Replace the batteries whenever the below happens

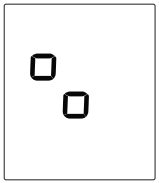
- Both symbols Lo appear on the LCD display
- The display dims
- The display does not light up

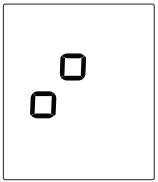
⚠ CAUTION

- New and used batteries, or different types of batteries shall not be used together.
- Remove batteries if the device is not likely to be used for some time.
- Do not heat or deform the batteries, or dispose of them in fire.
- Batteries should not be disposed of with household waste.
- Please check with your local authority for battery recycling advice.

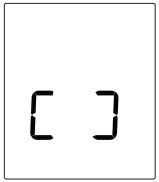
Note
When you insert or replace batteries into the device, the symbol and will display on the LCD alternately. This indicates that the device is searching and pairing with a mobile network.

You can long press the button to end pairing and use the device.
If you manually cancel pairing, the device may take longer to send a measurement after use.





If successful, the symbol [ ] will be shown on the LCD. You can then utilize the device as normal by pressing the button.

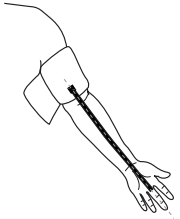


If unsuccessful, the monitor will power off automatically after several minutes.

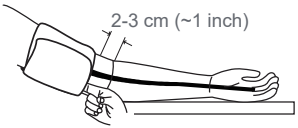
♥ Applying the cuff

Only use a cuff that has been approved by the manufacturer for this device model. Before use, please confirm if it fits your arm circumference.

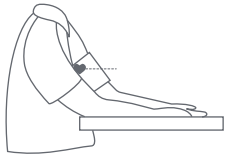
1. **Remove all jewelry, such as watches and bracelets from your left arm.**
   Note: If your doctor has diagnosed you with poor circulation in your left arm, use your right arm.
2. **Roll or push up your sleeve to expose the skin. Make sure your sleeve is not too tight.**
3. **Hold your arm with palm 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 1 inch (2-3 cm) 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!**

♥ Taking a Measurement

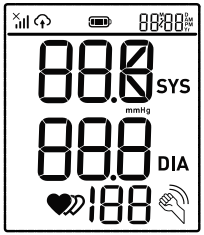
Helpful tips to help ensure an accurate reading

- 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.

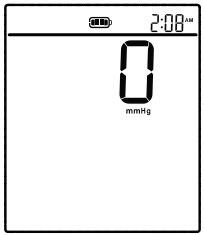
Start a measurement

1.When the monitor is off, press the (⏻) button to turn on, and then it will complete the whole measurement automatically.

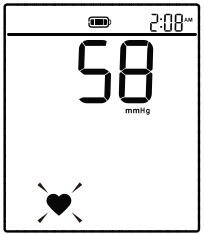
LCD display



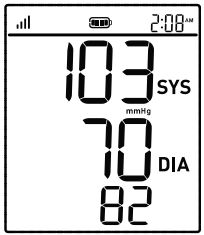
Adjust the zero point



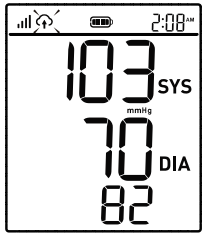
Inflating and measuring



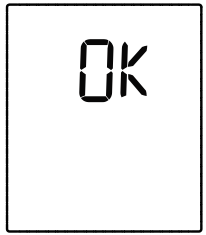
Display the measured result



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

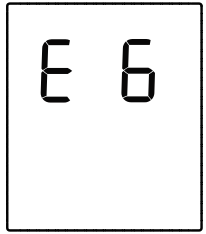


If successful, the symbol will disappear and the LCD will display "OK".



Press the (⏻) button to turn off the device, otherwise it will power off automatically after about 1 minute.

If unsuccessful, an error message ("E5" or "E6" for example) will display on the LCD for about 1 minute and then the device will power off.

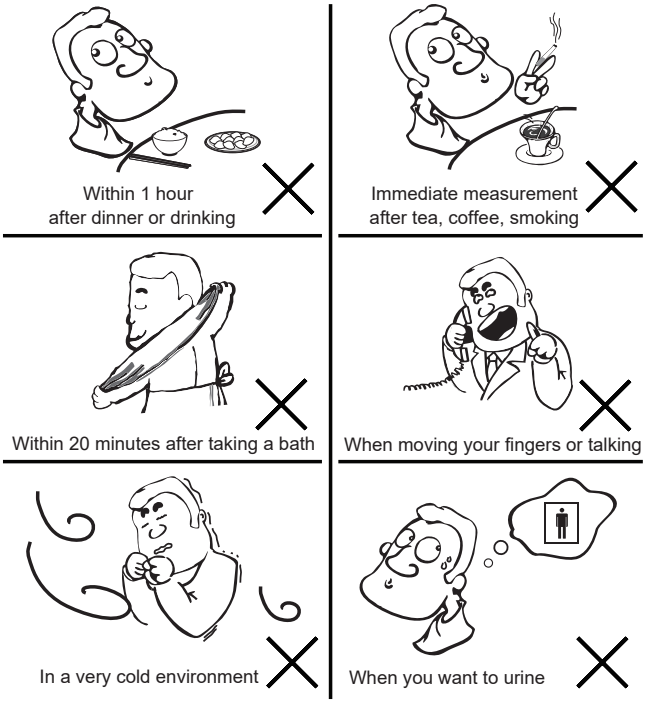


Note
In the case of a data transmission failure (E5 or E6), up to 60 measurements are saved on the device and will be sent when a successful connection is achieved.

Tip
You can press the (⏻) button to stop the measurement any time.

♥ Tips for Measurement

Measurements may be inaccurate if taken in the following circumstances.



♥ Maintenance

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

1. Cleaning Process:

Step 1: Before cleaning the monitor, make sure that the monitor is switched off and disconnected from the power line.
Step 2: Clean the cuff with a soft cloth dampened with the soapy water. Until no visible contaminants remain.
Step 3: Rinse the cuff and wipe off the cleaning solution with a fresh cloth or towel, dampened with tap water after cleaning until no visible cleaning agent remains.
Step 4: Wipe off with a dry cloth to remove residual moisture.
Step 5: Air dry the cuff thoroughly after cleaning.

2. Disinfection Process (Clean the monitor before disinfection):

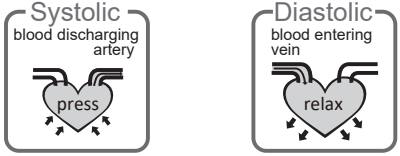
Step 1: Before disinfecting the monitor, make sure that the monitor is switched off and disconnected from the power line.
Step 2: Disinfect the cuff with a soft cloth dampened with the 70% isopropanol during 3 minutes.
Step 3: Rinse the cuff and wipe off the disinfection solution with a fresh cloth or towel, dampened with tap water after disinfecting until no visible disinfection agent remains.
Step 4: Wipe off with a dry cloth to remove residual moisture.
Step 5: Air dry the cuff thoroughly after disinfecting.

• **Suggestion:**

Frequency of Cleaning and Disinfection:
For single patient multiple use, it's recommended to clean the device surface once a month or whenever it's necessary.
For multiple patient multiple use, it's recommended to clean the device every time before and after usage. Maintenance procedures shall be taken as per instruction.

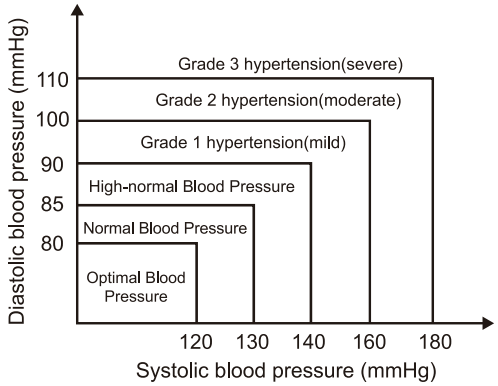
♥ What are systolic pressure and diastolic pressure?

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 blood pressure classification published by World Health Organization (WHO) and International Society of Hypertension (ISH) in 1999 is as follows:



Blood Pressure (mmHg) \ Level	Optimal	Normal	High-normal	Mild	Moderate	Severe
SYS	<120	120-129	130-139	140-159	160-179	≥180
DIA	<80	80-84	85-89	90-99	100-109	≥110

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 Pulse Rate Detector

An irregular pulse rate will be detected if there is an irregular pulse rhythm while measuring systolic and diastolic blood pressure. When measurements were performed, the monitor will record all pulse intervals and calculate the average. If two or more pulse intervals were recorded, and the difference between each interval and the average is larger than ±25% of the average; or if four or more pulse intervals were recorded, and the difference between each interval and the average is larger than ±15% of the average value, the irregular pulse symbol will be displayed along with measurement results.

CAUTION

The appearance of the IPR icon indicates that a pulse irregularity consistent with an irregular pulse rate 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.

Note

- The IPR indication is provided for informational purposes only.
- The detection of irregular pulse rate is not an intended purpose of this device.
- The appearance of an IPR symbol does not necessarily indicate the presence of a cardiac arrhythmia.
- Medical decisions should not be based solely on an IPR indication.

♥ 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?

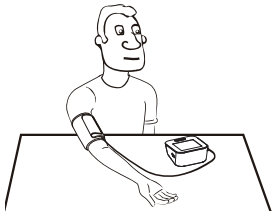
The blood pressure is different even throughout the day due to weather, emotion, exercise etc. Also, there is the “white coat” effect, which means blood pressure usually increases in clinical settings.

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.



If any abnormality arises during use, please check the following points:

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.
High Battery	H bAt	The supply voltage is too high.	Replace with the authorized adapter.
Low Battery	Lo	The battery is too low.	Replace with new batteries.
Error message	E 1	The cuff is not wrapped or wrapped incorrectly, or the cuff air plug is loose.	Refasten the cuff and insert air tube plug correctly then measure again.
	E 2 or	Excessive body motion (such as shaking of the arm with the cuff on) or Pulse is weak during a measuring.	Relax for 5 minutes, and then keep still, measure again.
	E 3	Pulse is not detected during measuring.	Loosen the clothing on the arm and then measure again.
	E 4	The measurement failed.	Relax for 5 minutes and measure again.
	E 5	Failed to communicate with the server	Try a place with better signal, or contact customer service
	E 6	Radio communication failure	Contact customer service
	EExx	Hardware error (xx can be some digital symbol, such as 1, 2, etc.)	Turn off monitor and measure again. If EEx still appears on the display, please contact the retailer or our customer service.
Warning message	out	Out of measurement range	Relax for a moment. Refasten the cuff and then measure again. If the problem persists, contact your physician.

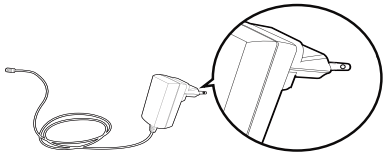
NOTE: If the product still does not work, contact the Customer Service. Under no circumstance should you disassemble or attempt to repair the unit by yourself.

External dimensions	Approx. 159.2 mm × 121.5 mm × 68.1 mm
Display mode	Digital LCD V.A. 78 mm × 92 mm
Weight	Approx. 541 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: 5ºC-40ºC within ±3 mmHg Pulse value: ±5%
Normal working condition	Temperature: +5ºC to +40ºC 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: -20ºC to +60ºC 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
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 protected against solid foreign objects of 12.5 mm and greater, and protect against vertically falling water drops.
Software Version	A01
Expected Lifetime	Device: 5 years or 10000 measurements (may vary based on usage conditions) Cuff: 10000 times Alkaline battery: About 300 times
Types of use/reuse	Multiple patient multiple use

WARNING: No modification of this equipment is allowed.

♥Authorized Component

please use the authorized adapter (optional).



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

♥Contact Information

For more information about our products, please visit www.transtekcorp.com

Manufactured by: Guangdong Transtek Medical Electronics Co., Ltd.

Company: Guangdong Transtek Medical Electronics Co., Ltd.

Address: Zone A, No.105, Dongli Road, Torch Development District, 528437 Zhongshan, Guangdong, China

♥EU Declaration of Conformity (DoC)

Hereby, Transtek, declares that this blood pressure monitor is in compliance with the essential requirements and other relevant provisions of Radio Equipment Directive 2014/53/EU.
The declaration of conformity may be consulted at https://usimg.bjyyb.net/sites/54000/54167/20210924092218315.jpg

♥Device Firmware Update Policy

The firmware of the blood pressure monitor is securely programmed and finalized during the manufacturing process. The device does not support Over-the-Air (OTA) firmware update.
The manufacturer actively monitors cybersecurity threats and software performance. If a firmware update is required, the manufacturer will proactively notify you or your authorized distributor. Upon receiving such notification, please contact us to arrange the secure offline update process for your device.

♥ 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 LS802-GP 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 lifetime.

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

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	±1 kV ±2 kV,100 kHz repetition frequency	For AC power port: Power supply lines: ±2 kV
Surge IEC61000-4-5	±1 kV (Line to ±0.5 kV line) ±0.5 kV ±1 kV ±2 kV (Line to ground) ±2 kV Signal line (LAN line)	For AC power port: Line to lines: ±1 kV
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0%, 70%, 0% of U_T	For AC power port: 0% for 0,5 cycle, 0°for 1 cycle 70% for 25 cycles; Single phase: 0% for 250 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	0,15 MHz – 80 MHz 3 V ISM and amateur radio bands between 0,15 MHz and 80 MHz 6 V	For AC power port: 3 Vrms 6 Vrms (in ISM and amateur radio bands) 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.		

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							