

# A&D

## Digital Blood Pressure Monitor

### Model UA-651SL

#### Instruction Manual

Original  
1WMPD4005008A  
Issued Date:19 Aug. 2025

## 1. Dear Customers

Thank you for purchasing a state-of-the-art A&D blood pressure monitor. Designed for ease of use and accuracy, this device will facilitate your daily blood pressure regimen.

- We recommend that you read through this manual carefully before using the device for the first time.

## 2. Preliminary Remarks

- This device conforms to the Medical Device Regulations (EU 2017/745) and UKCA Medical Device Regulations 2002 for Medical Products.
- This is made evident by the CE2797 and UKCA0086 mark of conformity. (2797 and 0086: The reference numbers to the involved notified body.)
- The device is designed for use by people 13 years and older, not newborns or infants.
- This device fulfils the following provisions.

CE 2797 Medical Device Regulation (EU 2017/745)  
UK 0086 UKCA Medical Devices Regulations 2002

## 3. Intended Purpose

The UA-651SL Digital Blood Pressure Monitor is intended to be used by patients to measure systolic and diastolic blood pressure and pulse rate in the home environment. The UA-651SL provides the patient with an indication of an irregular heartbeat allowing further medical attention to be sort.

## 4. Clinical Benefit

Successful assessment of blood pressure reading in accordance with the device's intended purpose.

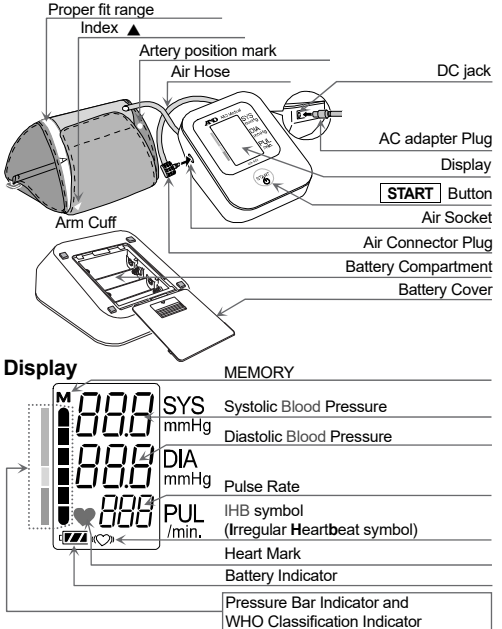
## 5. Precautions

- Precision components are used in the construction of this device. Extremes in temperature, humidity, direct sunlight, shock or dust should be avoided.
- Clean the device and cuff with a dry, soft cloth or a cloth dampened with water and a neutral detergent. Never use alcohol, benzene, thinner or other harsh chemicals to clean the device or cuff.
- Avoid tightly folding the cuff or storing the hose tightly twisted for long periods, as such treatment may shorten the life of the components.
- The device and cuff are not water resistant. Prevent rain, sweat and water from damaging the device and cuff.
- Measurements may be distorted if the device is used close to televisions, microwave ovens, cellular telephones, X-ray or other devices with strong electrical fields.
- When reusing the device, confirm that the device is clean.
- Used equipment, parts and batteries are not treated as ordinary household waste and must be disposed of according to the applicable local regulations.
- When the AC adapter is used, make sure that the AC adapter can be readily removed from the electrical outlet when necessary.
- Do not modify the device. It may cause accidents or damage to the device.
- To measure blood pressure, the arm must be squeezed by the cuff hard enough to temporarily stop blood flow through the artery. This may cause pain, numbness or a temporary red mark to the arm. This condition will appear especially when measurement is repeated successively. Any pain, numbness, or red marks will disappear with time.
- Take care to avoid accidental strangulation of babies or infants with the hose.
- Do not twist the air hose during the measurement. This may cause injury due to continuous cuff pressure.
- Measuring blood pressure too frequently may cause harm due to blood flow interference. Check that the operation of the device does not result in prolonged impairment of blood circulation, when using the device repeatedly.
- If you have had a mastectomy or lymph node clearance, please consult a doctor before using the device.
- Do not let children use the device by themselves and do not use the device in a place within the reach of infants. This may cause accidents or damage.
- There are small parts that may cause a choking hazard if swallowed by mistake by infants.
- Wireless communication devices, such as home networking devices, mobile phones, cordless phones and their base stations, and walkie-talkies can affect this blood pressure monitor. Therefore, a minimum distance of 30 cm should be kept from such devices.
- Unplug the AC adapter when not in use during the measurement.
- Use of accessories not detailed in this manual may compromise safety.
- Should the battery short-circuit, it may become hot and potentially cause burns.
- Allow the device to adapt to the surrounding environment before use (about one hour).
- Clinical testing has not been conducted on newborn infants and pregnant woman. Do not use on newborn infants or pregnant woman.
- Do not touch the batteries, the DC jack, and the patient at the same time. That may result in electrical shock.
- Do not inflate without wrapping the cuff around the upper arm.
- This is a medical device for use by lay person. Please consult your healthcare provider with any questions or concerns you may have regarding your condition.
- When any serious incident occurs in relation to this device, report to its manufacturer and the competent authority in your country.
- Confirm for proper operation before use, if the packaging is damaged, unintentionally opened and exposed to environmental conditions outside of those specified.
- This device is not intended to diagnose heart arrhythmias. If the Irregular Heart Beat indicator illuminates frequently and is unrelated to patient movement during blood pressure measurement, further medical attention must be sort.

## Contraindications

- The following are precautions for proper use of the device.
- Do not apply the cuff on an arm with another medical electrical equipment attached. The equipment may not function properly.
  - People who have a severe circulatory deficit in the arm must consult a doctor before using the device, to avoid medical problems.
  - Do not self-diagnose the measurement results and start treatment by yourself. Always consult your doctor for evaluation of the results and treatment.
  - Do not apply the cuff on an arm with an unhealed wound.
  - Do not apply the cuff on an arm receiving an intravenous drip or blood transfusion. It may cause injury or accidents.
  - Do not use the device where flammable gases such as anesthetic gases are present. It may cause an explosion.
  - Do not use the device in highly concentrated oxygen environments, such as a high-pressure oxygen chamber or an oxygen tent. It may cause a fire or explosion.
  - The UA-651SL Digital Blood Pressure Monitor is not intended to diagnose heart arrhythmias. If the Irregular Heart Beat indicator illuminates frequently and is unrelated to patient movement during blood pressure measurement, further medical attention must be sort.

## 6. Parts Identification



## 7. Symbols

### Symbols that appear on the display

| Symbols | Function / Meaning                                                                                                                    | Recommended Action                                                                                                                             |
|---------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| ♥       | Appears while measurement is in progress. It blinks when the pulse is detected.                                                       | Measurement is in progress. Remain as still as possible.                                                                                       |
| ♥       | IHB appears when an irregular heartbeat is detected. It may light when a very slight vibration like shivering or shaking is detected. | Apply the cuff correctly, then take another measurement. If the ♥ symbol continues to appear, we recommend you to consult with your physician. |

|              |                                                                                      |                                                                                                                                          |
|--------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| M            | Displayed when the data in memory is displayed.                                      | _____                                                                                                                                    |
| FULL BATTERY | The battery power indicator during the measurement.                                  | _____                                                                                                                                    |
| LOW BATTERY  | The battery power is low when it blinks.                                             | Replace all batteries with new ones when the mark blinks.                                                                                |
| Err          | Unstable blood pressure due to movement during the measurement.                      | Take another measurement. Remain still during the measurement.                                                                           |
| Err          | The systolic and diastolic blood pressure values are within 10 mmHg from each other. |                                                                                                                                          |
| Err          | The pressure value did not increase during the inflation.                            | Apply the cuff correctly, and take another measurement.                                                                                  |
| Err          | The cuff is not applied correctly.                                                   |                                                                                                                                          |
| E            | PUL DISPLAY ERROR<br>The pulse is not detected correctly.                            |                                                                                                                                          |
| Err          | Device internal error                                                                | Remove the batteries and press the [START] button, and then install the batteries again. If the error still appears, contact the dealer. |

### The symbols that are printed on the device and the packaging.

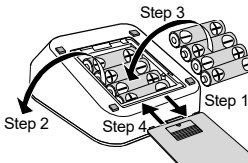
| Symbols                                | Function / Meaning                                                        |
|----------------------------------------|---------------------------------------------------------------------------|
| Power button                           | Press  to turn on the device. Press  during measurement to enter standby. |
| SYS                                    | Systolic blood pressure in mmHg                                           |
| DIA                                    | Diastolic blood pressure in mmHg                                          |
| PUL                                    | Pulse per minute                                                          |
| Battery installation guide             |                                                                           |
| Direct current                         |                                                                           |
| Type BF applied part                   |                                                                           |
| CE marking                             | CE marking                                                                |
| European Authorized Representative     |                                                                           |
| UK Conformity Assessed marking         |                                                                           |
| UK Responsible Person                  |                                                                           |
| Medical Device                         |                                                                           |
| Manufacturer                           |                                                                           |
| Date of manufacture                    |                                                                           |
| WEEE label                             |                                                                           |
| Serial Number                          |                                                                           |
| Unique Device Identifier               |                                                                           |
| Refer to instruction manual/booklet *1 |                                                                           |
| Polarity of DC jack                    |                                                                           |
| International protection symbol        |                                                                           |
| Keep dry                               |                                                                           |
| Temperature limit                      |                                                                           |
| Humidity limitation                    |                                                                           |
| Atmospheric pressure limitation        |                                                                           |
| EU Importer                            |                                                                           |
| UK Importer                            |                                                                           |

\*1 The symbol color: Blue

## 8. Using the Monitor

### 8.1. Inserting / Changing the Batteries

- Remove the battery cover.
- Remove the used batteries from the battery compartment in case of changing them.
- Insert new batteries into the battery compartment as shown, making sure that the polarities (+) and (-) are correct.
- Putting on the battery cover. Use only R6P, LR6 or AA batteries.

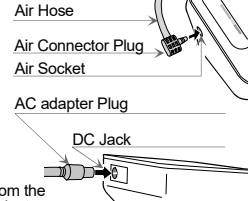


### CAUTION

- Insert the batteries as shown in the battery compartment. If inserted incorrectly, the device will not work.
- When blinks on the display and the device announces that the battery needs to be replaced, replace all batteries with new ones. Do not mix old and new batteries. It may shorten the battery life, or cause the device to malfunction. After the device turns off, wait a few seconds before replacing the batteries.
- does not appear when the batteries are drained.
- The battery life varies with the ambient temperature and may become shorter at low temperatures. Generally, four new R6P batteries will last approximately for three months when used twice for measurement each day.
- Use the specified batteries only. The batteries provided with the device are for testing and may have a limited life.
- Remove the batteries if the device is not to be used for a long time. The batteries may cause leakage and operational issues.

### 8.2. Connecting the Air Hose

Insert the air connector plug into the air socket firmly.



### 8.3. Connecting the AC Adapter

- Insert the AC adapter plug into the DC jack. Then, insert the AC adapter into an electrical outlet. The AC adapter, the model TB-233, is sold separately.
- When disconnecting the AC adapter from the electrical outlet, hold and pull the AC adapter body out of the outlet.
  - When disconnecting the AC adapter plug from the blood pressure monitor, hold and pull the AC adapter plug out of the monitor.

### 8.4. Selecting the Correct Cuff Size

- Using the correct cuff size is important for an accurate reading. If the cuff is not the proper size, an incorrect blood pressure value may be displayed.
- The arm size is printed on each cuff.
  - The index and proper fit range, on the cuff, tell you if you are applying the correct cuff. Refer to "8.5 Applying the Arm Cuff".
  - If the index points outside of the range, contact your local dealer to purchase a replacement cuff.
  - The arm cuff is a consumable. If it becomes worn, purchase a new one.

| Arm Size       | Recommended Cuff Size | Catalog Number |
|----------------|-----------------------|----------------|
| 31 cm to 45 cm | Large Adult cuff      | CUF-D-LA-ISO   |
| 23 cm to 37 cm | Semi Large Adult cuff | CUF-D-MA-ISO   |

Arm size: The circumference of an upper arm.  
Note: Model UA-651SL is not designed for using a small cuff.

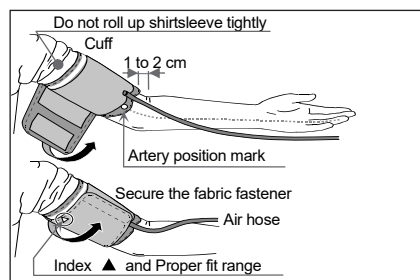
### Symbols printed on the cuff.

| Symbols | Function / Meaning                                                               | Recommended Action                                                                                      |
|---------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| ●       | Artery Position Mark                                                             | Set the ● mark on the artery of the upper arm or in line with the ring finger on the inside of the arm. |
| ▲       | Index                                                                            | _____                                                                                                   |
| REF     | Catalog number                                                                   | _____                                                                                                   |
| A       | Proper fit range for the semi large adult cuff. It's printed on the adult cuff.  | _____                                                                                                   |
| L       | Over range printed on the semi large adult cuff.                                 | Use the large adult cuff instead of the semi large adult cuff.                                          |
| L       | Proper fit range for the large adult cuff. It's printed on the large adult cuff. | _____                                                                                                   |
| S       | Under range printed on the semi large adult cuff.                                | _____                                                                                                   |
| A       | Under range printed on the large adult cuff.                                     | Use the semi large adult cuff instead of the large adult cuff.                                          |
| LOT     | Lot number                                                                       | _____                                                                                                   |



### 8.5. Applying the Arm Cuff

- Wrap the cuff around the upper arm, about 1 to 2 cm above the inside of the elbow, as shown. Apply the cuff directly against the skin, as clothing may cause a faint pulse and result in a measurement error.
  - Constriction of the upper arm, caused by rolling up a shirtsleeve, may cause inaccurate readings.
  - Confirm that the index points within the proper fit range.
- Note: During the measurement, it is normal for users to feel tight. (Do not be alarmed).



## 9. Measurements

### 9.1. Normal Measurement

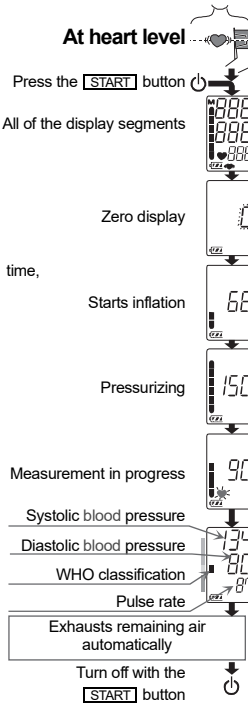
- Apply the cuff on the arm at heart level (preferably the left arm). Sit quietly during the measurement.
- Press the [START] button. All of the display segments are displayed. Zero is displayed blinking briefly. Then the display changes, as indicated in the figure at the right, as the measurement begins. The cuff starts to inflate. It is normal for the users to feel tight. A pressure bar indicator is displayed, as in the figure on the right, during the inflation.

- Note: If you want to stop inflation at any time, press the [START] button again.
- When inflation is completed, deflation starts automatically and the ♥ (heart mark) blinks, indicating that the measurement is in progress. Once the pulse is detected, the mark blinks with each pulse beat.

Note: If an appropriate pressure is not obtained, the device starts to inflate again automatically.

- When the measurement is completed, the systolic and diastolic blood pressure readings and pulse rate are displayed. The cuff exhausts the remaining air and deflates completely.

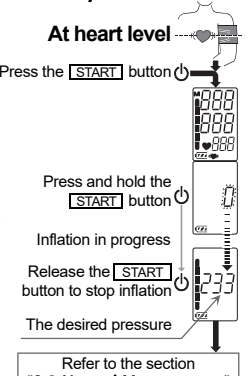
- Press the [START] button again to turn off the power.
- Note: Model UA-651SL is provided with an automatic power shut-off function. Allow at least 3 minutes between measurements on the same person.



### 9.2. Measurement with the Desired Systolic Blood Pressure

If re-inflation occurs repeatedly, use the following methods. If your systolic blood pressure is expected to exceed 230 mmHg, use this procedure.

- Apply the cuff on the arm at heart level (preferably the left arm).
- Press the [START] button.
- During the zero blinks, press and hold the [START] button until a number about 30 to 40 mmHg higher than your expected systolic blood pressure appears.
- When the desired number is reached, release the [START] button to start measurement. Then continue to measure your blood pressure as described on the section "9.1 Normal Measurement".



### 9.3. Notes for Accurate Measurement

- Sit comfortably on a chair. Rest your arm on the table. Do not cross your legs. Keep your feet on the floor and straighten your back.
- Sit down in a comfortable position. Place your arm on a table with your palm facing upward and the cuff at the same level as your heart.
- Place the center of the cuff at the same level as your heart.
- Relax for about five to ten minutes before taking the measurement. If you are excited or depressed by emotional stress, the blood pressure reading may be higher (or lower) than a normal blood pressure reading and the pulse rate will usually be faster than normal.
- Remain still and keep quiet during the measurement.
- Do not measure immediately after physical exercise or a bath. Rest for twenty or thirty minutes before taking the measurement.
- An individual's blood pressure varies constantly, depending on what you are doing and what you have eaten. What you drink may have a strong and rapid effect on your blood pressure.
- This device bases its measurements on the heartbeat. If you have a weak or irregular heartbeat, the device may have difficulties determining your blood pressure.
- If the device detects a condition that is abnormal, it will stop the measurement and the error symbol will be displayed. Refer to the section "7 Symbols" for the description of the symbols.
- This blood pressure monitor is intended for use by people 13 years and older.
- Try to measure your blood pressure at the same time every day.
- The automatic blood pressure monitor's performance may be affected by excessive temperature or humidity, or altitude.

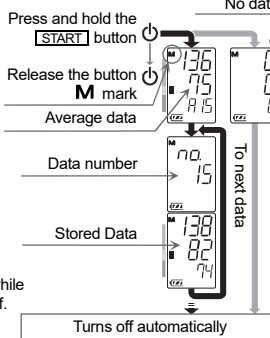
## 10. Recalling the Memory Data

The device automatically stores up to thirty blood pressure and pulse measurements in memory. Data stored in memory are assigned a data number in the order of the newest to the oldest. The oldest data displays as "no. 1". The M symbol in the upper left corner of the display indicates that you are viewing previous data stored in memory.

### 10.1. Recalling Data

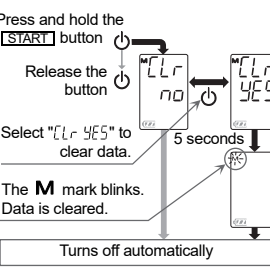
- When nothing is displayed, press and hold the [START] button to recall the stored data.
- Release the button when displaying the average data.
- The data number and stored data are automatically displayed in order from the last measurement.
- The display will be turned off automatically after all data is displayed.

Note: If you press the [START] button while recalling data, the device turns off.



### 10.2. Clearing Data

- When turning off the device, press and hold the [START] button until the "CLR no." is displayed.
- Select "CLR YES" to clear data.
- Data is cleared when the M mark blinks.
- The device turns off automatically.

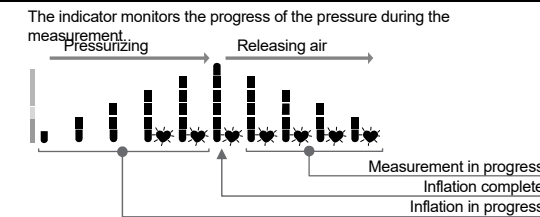


## 11. What is an Irregular Heartbeat

The UA-651SL provides a blood pressure and pulse rate measurement even when an irregular heartbeat occurs. An irregular heartbeat is defined as a heartbeat that varies by 25% from the average of all heartbeats during the blood pressure measurement. It is important that you are relaxed, remain still and do not talk during the measurements.

Note: We recommend contacting your physician if you see this ♥ symbol frequently.

## 12. Pressure Bar Indicator



## 13. About Blood Pressure

### What is Blood Pressure?

Blood pressure is the force exerted by blood against the walls of the arteries. Systolic blood pressure occurs when the heart contracts. Diastolic blood pressure occurs when the heart expands. Blood pressure is measured in millimeters of mercury (mmHg).

## 14. WHO Classification Indicator

| Each segment of the bar indicator corresponds to the WHO blood pressure classification.                  | WHO Classification Indicator                                                                          |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| ■: The indicator displays a segment, based on the current data, corresponding to the WHO classification. | Severe hypertension<br>Moderate hypertension<br>Mild hypertension<br>High normal<br>Normal<br>Optimal |

## 15. Troubleshooting

| Problem                                                                   | Possible Cause                                                                                        | Suggestion                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nothing appears on the display, even when the power is turned on.         | Batteries are drained.<br>Battery terminals are not in the correct position.                          | Replace all batteries with new ones.<br>Reinstall the batteries with negative and positive terminals matching those indicated on the battery compartment.                                                                                                                                                                        |
| The cuff does not inflate.                                                | Battery power is too low.  blinks. If the batteries are drained completely, the mark does not appear. | Replace all batteries with new ones.                                                                                                                                                                                                                                                                                             |
| The device does not measure. Readings are too high or too low.            | The cuff is not applied properly.<br>Movement is detected.<br>The cuff position is not correct.       | Apply the cuff correctly.<br>Make sure to remain still and quiet during the measurement.<br>Sit comfortably and still. Place your arm on a table with your palm facing upward and the cuff at the same level as your heart.                                                                                                      |
| The value is different from that measured at a clinic or doctor's office. |                                                                                                       | If you have a very weak or irregular heartbeat, the device may have difficulties in determining your blood pressure.<br>At a clinic or doctor's office, an apprehension may cause an elevated reading. Home measurement reduces the effects of outside influences on blood pressure readings, supplements the doctor's readings. |
| Other                                                                     |                                                                                                       | Remove the batteries. Put them back properly and take another measurement.                                                                                                                                                                                                                                                       |

Note: If the suggestions described above do not solve the problem, contact the authorized dealer. Do not attempt to open or repair this product, otherwise your warranty may be invalid.

## 16. Maintenance

Do not open the device. It uses delicate electrical components and an intricate air unit that could be damaged. If you cannot fix the problem using the troubleshooting instructions, contact the authorized dealer in your area or our customer service department. The A&D customer service will provide technical information, spare parts and units to authorized dealers. The device is designed and manufactured for a long service life. However, it is generally recommended to have the device inspected every 2 years, to ensure proper functioning and accuracy. Please contact the authorized dealer in your area or A&D for maintenance.

## 17. Technical Data

|                              |                                                                                                                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                         | UA-651SL                                                                                                                                                                                                                |
| Measurement method           | Oscillometric measurement                                                                                                                                                                                               |
| Measurement range            | Pressure: 0 - 299 mmHg<br>Systolic blood pressure: 0 - 279 mmHg<br>Diastolic blood pressure: 40 - 200 mmHg<br>Pulse: 40 - 180 beats / minute                                                                            |
| Measurement accuracy         | Pressure: ±3 mmHg<br>Pulse: ±5 %                                                                                                                                                                                        |
| Power supply                 | 4 x 1.5V batteries (R6P, LR6 or AA) or AC adapter (TB-233C) (Not included)                                                                                                                                              |
| Number of measurements       | Approx. 700 times LR6 (alkaline batteries)<br>Approx. 200 times R6P (manganese batteries)<br>With pressure value 180 mmHg, room temperature 23 °C.                                                                      |
| Classification               | Internally powered ME equipment (Supplied by batteries) / Class II (Supplied by adapter)<br>Continuous operation mode<br>According to ISO81060-2: 2018+A1: 2020<br>IEC 60601-1-2: 2014+A1: 2020<br>Last 30 measurements |
| Clinical test                | +10 to +40 °C / 15 to 85 %RH / 800 to 1060 hPa                                                                                                                                                                          |
| EMD                          | -20 to +60 °C / 10 to 95 %RH / 700 to 1060 hPa                                                                                                                                                                          |
| Memory                       | Approx. 96 [W] x 68 [H] x 130 [D] mm                                                                                                                                                                                    |
| Operating conditions         | Approx. 240 g, excluding the batteries                                                                                                                                                                                  |
| Transport/Storage conditions | Device: IP20                                                                                                                                                                                                            |
| Dimensions                   | Cuff Type BF                                                                                                                                                                                                            |
| Weight                       | Device: 5 years (when used six times a day)                                                                                                                                                                             |
| Ingress protection           | Cuff: 2 years (when used six times a day)                                                                                                                                                                               |
| Applied part                 | AC adapter: 5 years (when used six times a day)                                                                                                                                                                         |
| Useful life                  | 1 Blood Pressure Monitor, 4 Batteries, 1 Cuff<br>1 Instruction Manual, 1 Carrying case<br>1 EMD Technical Documentation                                                                                                 |
| Contents *2                  | Accessory AC adapter/TB233C                                                                                                                                                                                             |

The adapter is to connect the device to a power source at home.  
Input: AC 100-240V 50/60Hz 0.15A  
Output: DC 6V 500mA  
Please contact your local A&D dealer for purchasing. The AC adapter is required to be inspected or replaced periodically.

| Symbols                        | Function / Meaning |
|--------------------------------|--------------------|
| For indoor use only            |                    |
| Class II device                |                    |
| EAC certification device label |                    |
| Polarity of AC adapter plug    |                    |
| Alternating current            |                    |

Refer to section 6 for the meanings of the other symbols.

|                             |                                       |
|-----------------------------|---------------------------------------|
| Accessories sold separately |                                       |
| Cuff                        | Catalog Number, Cuff Size, Arm Size   |
| CUF-D-LA-ISO                | Large Adult cuff, 31 cm to 45 cm      |
| CUF-D-MA-ISO                | Semi Large Adult cuff, 23 cm to 37 cm |

Arm size: The circumference of an upper arm.

|            |                                    |
|------------|------------------------------------|
| AC adapter | Catalog Number, Plug (Outlet type) |
| TB-233C    | Type C                             |

\*2: Confirm that all of the parts are included to ensure that the medical device is ready to perform safely and as intended.

Note: Specifications are subject to change without prior notice. IP classification is the degrees of protection provided by enclosures in accordance with IEC 60529. This device is protected against solid foreign objects with a diameter of 12 mm or greater, such as a finger. This device is not protected against water.

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