

● ABOUT US ●

Driven by the passion for innovation, we at Dr Trust endeavour to provide our customers with the latest medical inventions with an objective to promote good health and wellness all around the world. All the medical devices and health monitors provided by Dr Trust are supported by accurate, latest and ground breaking technologies, innovated at our headquarter in NY, USA. All our products adhere to the most stringent CE and FDA guidelines and are strongly recommended by doctors and health practitioners. Our products are designed in the utmost exemplary ways to ensure that their accuracy and convenience are unrivalled. The ease of their use and operation makes them even more suitable for users of all age groups.

Dr Trust strives to enhance the quality of lifestyle by providing with the most trusted and innovative health care and wellness products. Being a renowned global leader in health care products, Dr Trust ensures that our technically efficient team works dynamically and tirelessly to provide the best of the medical devices to our clients. The products that we have to offer are suitably designed for use at homes, laboratories and hospitals.

Our ground breaking solutions allow you to monitor your health in the easiest ways possible. In today's era when all of our lives are too hassled to handle, it becomes a bit difficult to pay attention to our health. But it has now become easier with the coming of the monitoring devices which can be conveniently used at homes and even on the go.

We bring to you a variety of best self medical devices, trusted and used by Doctors, medical professionals and home users all over the world.

Dr Trust BP Smart with MDI Technology - 101

● QUICK START GUIDE ●

Step 1

Slide the blood pressure cuff onto your upper arm and secure it so that it sits snugly about one inch above of your elbow.

Step 2

Simply push the START/STOP button and cuff begins to inflate with controlling deflation speed automatically.

Step 3

With the cuff inflation, look at the screen to get your blood pressure reading.

Step 4

Intended for giving very fast and reliable measurements, it gives result with Cuff Inflation.

Step 5

Hypertension Classification Indicator displays coloured results according to the range between which blood pressure values lie.

Step 6

Users can make settings for talking (HINDI/ENGLISH), memory and other features to make blood pressure monitoring convenient.



Note:

If you need to repeat the measurement, wait a few minutes before attempting a new reading.

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● 1.INTRODUCTION ●

Dr Trust BP Smart with MDI enables you to monitor your blood pressure regularly and helps you to maintain a record of your blood pressure measurements. You can then use this record to assist your physician in diagnosing and maintaining a healthy blood pressure level. This digital BP measuring device is fully automatic and comes with integrated time/date display. Intended for use on the arm, the device gives very fast and reliable measurements of the systolic and diastolic blood-pressure as well as the pulse frequency through Measurement During Inflation (MDI) technology. The device is fully automatic and offers a very high and clinically tested measurement accuracy and has been designed to provide a maximum of user friendliness.

1.1. Measurement Principle- MDI Technology

Dr Trust BP Smart with MDI is a BP monitor with Measurement During Inflation (MDI) technology. MDI is a new technology which is faster and gives extra comfort to the arm of the patient. This product uses the Oscillometric Measuring method to detect blood pressure during inflation without creating any pressure on the arm. Better accuracy is ensured in case of repeated measurements. It measures diastolic blood pressure first during inflation and gives instant result without deflating. It classifies measurements according to the WHO evaluation system using Traffic-Light Colour scale. Also, it allows immediate repeat measurement for comparison with least difference.

● 1.2. Features ●

- It offers very high and clinically tested measurement accuracy.
- The device is intended for self-use at home.
- It comes with the Measurement During Inflation (MDI), a unique and innovative technology that allows BP measurement during the inflation of the cuff. The technology makes BP monitoring a less painful process with less pressure on arm.
- It has been designed to provide a maximum of user-friendliness. It is easy to operate as no special adjustment is required.
- BP measurement can be performed using either the right or the left arm.
- The arm cuff is inflated around the arm by pressing the START/STOP button and deflation speed is automatically controlled.
- It is a fully automatic, digital, blood pressure measuring device with a large LCD screen backed by backlight.
- It provides a fast and reliable measurement of systolic and diastolic blood pressure as well as heart rate using the oscillometric measurement method.
- It displays pulse irregularities measured during a blood pressure reading.
- Hypertension Classification Indicator displays the range between which your blood pressure values lie.
- Memory feature allows to store up to 120 blood pressure readings of 2 users with time and date.
- It allows visually impaired people to make health checkups independently as they can use its unique talking feature that announces results in HINDI/ENGLISH.
- This is a compact and portable BP monitor which can be powered through Micro USB or 4 AA batteries. You just need to connect it with laptop or any other compatible power source.



1.3.Important Information About Self-Measurement

- Do not use with neonatal patients.
- Do not intend to use with pregnant or pre-eclamptic patients.
- Keep product in proper packing. Any inadequate use will cause harmful injury to the patient or would affect the blood pressure due to connection tubing kinking.
- Too frequent measurements can cause injury to the patient due to blood flow interference.
- The application of the cuff over a wound can cause further injury.
- Avoid pressurization of cuff on any limb where intravascular access or therapy or an arteriovenous (A-V) shunt is present. It could result in injury to the patients because of temporary interference to blood flow.
- Do not let the cuff put its pressure on the arm on the side of a mastectomy.
- Pressurization of the cuff can temporarily cause loss of function of simultaneously used monitoring Medical Electrical (ME) equipment on the same limb.
- There is a need to check that operation of the automated sphygmomanometer does not result in prolonged impairment of patient blood circulation.
- Not intended to be used together with HF surgical equipment.

Electromagnetic Interference

The device contains sensitive electronic components (Microcomputer). Therefore, avoid strong electrical or electromagnetic fields in the direct vicinity of the device (e.g. mobile telephones, microwave cookers). These can lead to temporary impairment of the measuring accuracy.

2.IMPORTANT INFORMATION

2.1. What Causes High Blood Pressure?

While the cause of high blood pressure in most people remains unclear, inactivity, poor diet, obesity, older age, and genetics – can all contribute to the development of hypertension.

2.2. Which values are normal?

Blood pressure is too high, if at rest, the diastolic pressure is above 90 mmHg and/or the systolic blood-pressure is over 160 mmHg. In this case, please consult your doctor immediately. Long-term values at this level endanger your health due to the associated advancing damage to the blood vessels in your body.

If you are undergoing medical treatment to control your blood pressure, please keep a record of the level of your blood pressure by carrying out regular self-measurements at specific times of the day. Show these values to your doctor.

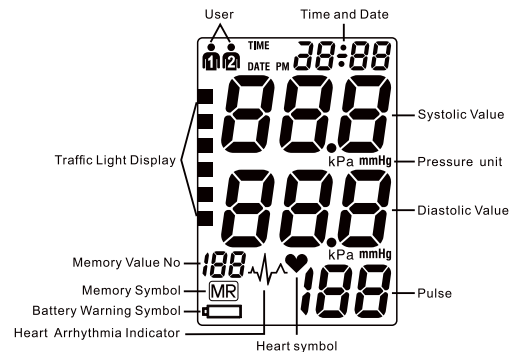
Table for classifying blood-pressure values (unit: mmHg) according to World Health Organization

Range & broadcasting	Systolic Blood-Pressure	Diastolic Blood-Pressure	Measures
Hypotension	lower than 100	lower than 60	Consult your doctor
Optimal BP	between 100 and 120	Between 60 and 80	Self-check
Normal BP	between 120 and 130	Between 80 and 85	Self-check



High to Normal BP	between 130 and 140	Between 85 and 90	Consult your doctor
Slight Hypertension	between 140 and 160	Between 90 and 100	Seek medical advice
Medium Hypertension	between 160 and 180	Between 100 and 110	Seek medical advice
Strong Hypertension	Higher than 180	Higher than 110	Urgently seek medical advice!

3. THE VARIOUS COMPONENTS OF THE BLOOD-PRESSURE MONITOR



4. PUTTING THE BLOOD PRESSURE MONITOR INTO OPERATION

4.1. Inserting the batteries

- Insert the batteries (4 x size AA 1.5V), thereby observing the indicated polarity.
- If the battery power reduces less than 20%, battery warning icon appears.
- If the batteries are empty, battery warning icon appears indicating immediate replacement by new ones.



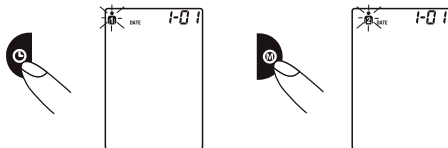
To Be Noted

- After the battery warning icon appears, the device is blocked until the batteries have been replaced.
- Please use «AA» Long-Life or Alkaline 1.5V Batteries.
- Please remove the batteries from the device if the blood-pressure monitor is left unused for a long period.

4.2 User Selection

This advanced blood pressure monitor allows you to track blood pressure readings for 2 individuals independently.

- 1) Before measurement, make sure you set the user no. for the intended user. The unit can track results for 2 individuals (User 1, User 2) with their identity
- 2) Press the TIME button for at least 3 seconds. The display now indicates the set user. To confirm, press ON/OFF button.
- 3) Click the MEMORY button to select User 2.
- 4) We suggest the first person to take their pressure to be User 1.



4.3. Language Selection, Time / Date Settings

Language Selection

User can select either of the two languages i.e. English & Hindi, if talking required. Else user can also mute the unit.

- 1) Press & hold on/off button for 3 seconds. Default Language 1(Language English) will appear.
- 2) To change language to Language 2 (Hindi), press memory button one time. Press this button twice to mute. To go back to English press setting button.

Setting the Time & Date

This blood-pressure monitor incorporates an integrated clock with date display. This has the advantage, that at each measurement procedure, not only the blood-pressure values are stored, but also the exact moment of the measurement can also be stored. After new batteries have been inserted, the clock originally displays DATE as 1-01 and TIME as 12:00. You must then re-enter the date and current time. For this, please proceed as follows.

1. Press the TIME button for at least 3 seconds firstly, user icon will blink. Then press TIME button again, the display now indicates the set year, during which the four characters blink.
2. The correct year can be entered by pressing the MEMORY button.
3. Press the TIME button again. The display now switches to the current date, during which the first character (month) blinks.
4. The corresponding month can now be entered by pressing the MEMORY button.



5. Press the TIME button again. The last two characters (day) are now blinking.
6. The corresponding day can now be entered by pressing the MEMORY button.
7. Press the TIME button again. The display now switches to the current time, during which the rst character (Hour) blinks.
8. The corresponding hour can now be entered by pressing the MEMORY button.
9. Press the TIME button again. The last two characters (Minutes) now blink.
10. The exact time can now be entered by pressing the MEMORY button.
11. Press TIME button (or TIME / DATE or TIME): the unit of measurement will flash.
12. Press the "MEMORY to set the unit of measurement (mmHg or kPa)
13. Now after all settings have been made, press the TIME button once again. The date is briefly displayed and then the time. The input is now confirmed, and the clock begins to work.
14. Rapid user select button press the user button, then is blinking, press again to change user.

To be Noted

With each press of the button (TIME, MEMORY) one input is made (e.g. switching over from hours to minutes mode or altering the value by +1). However, if you keep the respective button pressed, you can switch more quickly to the desired value respectively.

5. CARRYING OUT A MEASUREMENT

5.1. Before the Measurement

To ensure a reliable reading follow these recommendations:

- Avoid eating, drinking alcohol, bathing, smoking as well as any form of exertion directly before taking the measurement as all these factors influence the measurement result.
- Try to rest for 15-30 minutes by sitting in an armchair in a quite atmosphere prior to taking a measurement.
- Always take measurements in a quiet place.
- Stress raises blood pressure. So, don't take measurements during stressful times.
- Measure always on the same arm (preferably left).
- The cuff (arm) should be at the same level as your heart.
- Attempt to carry out the measurements regularly at the same time of day, since the blood-pressure changes during the course of the day.
- Avoid wearing tight clothing on your arm.
- Do not talk, just remain still during the measurement.
- The cuff (arm) should be at the same level as your heart.

To be Noted

Comparable blood-pressure measurements always require the same conditions! These are normally always quiet conditions.

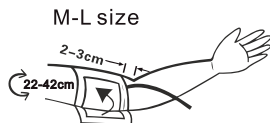


5.2. Fitting the cuff

- a) Insert air connector into air outlet shown in the given picture and make sure the air connector is fitted properly to avoid air leakage.

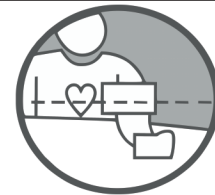


Positioning the Cuff on The Arm Correctly a) The distance between the edge of cuff and the elbow should be approx 2~3cm.



- b) Secure the cuff with the Velcro fastener, so that it lies comfortably and not too tight. Ensure that no space should remain between the cuff and the arm.

- c) Lay the arm on a table, with the palm upwards. Support the arm a little with a rest (cushion), so that the cuff rests at about the same height as the heart. Take care, that the cuff lies free. Sit quietly in the same position for 2 minutes after beginning with the measurement.



- d) Let legs be uncrossed, feet at on the floor, back and arm supported.



5.3. Start Taking BP Measurement

- a) Press the ON/OFF button, the pump begins to inflate the cuff. In the display, the increasing cuff-pressure is continually displayed.





b) As the cuff inflates, the monitor automatically determines your ideal inflation level. This monitor detects your blood pressure and pulse rate during inflation. The Heartbeat Symbol (♥) ashes with every heartbeat.

c) When the measurement has been concluded, the measured systolic and diastolic blood- pressure values as well as the pulse frequency are shown on its display.

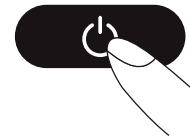
d) The measurement results are displayed, until you switch the device off. If no button is pressed for 3 minutes, the device switches automatically off, to save the batteries.



Example (Fig.): Systole 118,
Diastole 73, Pulse 75

5.4. Discontinuing a Measurement

If it is necessary to interrupt a blood pressure measurement for any reason (e.g. the patient feels unwell), the "ON/OFF" power button can be pressed at any time. The device then immediately lowers the cuff-pressure automatically.



5.5. Memory-Storage and Recall of The Measurements

The blood-pressure monitor automatically stores each of the last 120 measurement values with user identity. By pressing the MEMORY button, an average value of the last 3 measurements as well as the last measurement and the further last 120 measurements (MR119, MR118, ..., MR1) can be displayed one after the other.

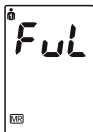


(Mr1: Values of the last measurement) (MR2-MR120: Values of the measurement before MR1)



5.6. Memory full

Pay attention that the maximum memory capacity is not exceeded. When the memory is full, the old values are automatically deleted. Overwritten with new ones. When memory is full, the display shows the following picture for 1 sec to remind you memory is full.



5.8. Memory– Cancellation of All Measurements

Before you delete all readings stored in the memory, make sure you don't need refer them for future reference. Keeping a written record is prudent and may provide additional information for your doctor's visit. In order to delete all stored readings, press the MEMORY button for at least 5 seconds, the display will show the symbol «CL» and then release the button. To clear the memory permanently, press the MEMORY button while «CL» is flashing to indicate deletion of stored data.



6. Appearance of the Heart Arrhythmia Indicator for Early Detection

This symbol indicates that certain pulse irregularities were detected during the measurement. In this case, the result may deviate from your normal blood pressure-repeat the measurement. In most cases, this is no cause for concern. However, if the symbol appears on a regular basis (e.g. several times in a week with measurements taken daily) we advise you to tell your doctor.

7. ERROR MESSAGES /MALFUNCTIONS

If an error occurs during a measurement, the measurement is discontinued, and a corresponding error code is displayed.

Error No.	Possible cause(s)
ERR 1	No pulse has been detected.
ERR 2	Unnatural pressure impulses influence the measurement result. Reason: The arm was moved during the Measurement (Artefact).
ERR 3	The inflation of the cuff takes too long. The cuff is not correctly seated.



ERR 5	The measured readings indicated an unacceptable difference between systolic and diastolic pressures. Take other reading following directions carefully. Contact you doctor if you continue to get unusual readings.
ERR 8	The pressure in the cuff is too high (over 290 mmHg)

Other Possible Malfunctions And their Elimination

If problems occur when using the device, the following points should be checked and if necessary, the corresponding measures are to be taken:

Malfunction	Remedy
The display remains empty when the instrument is switched on although the batteries are in place.	<ol style="list-style-type: none"> 1. Check batteries for correct polarity and if necessary, insert correctly. 2. If the display is unusual, re-insert batteries or exchange them

The device frequently fails to measure the blood pressure values, or the values measured are too low (too high).	<ol style="list-style-type: none"> 1. Check the positioning of the cuff. 2. Measure the blood-pressure again in peace and quiet under observance of the details made under point 5.
Every measurement produces a different value although the instrument functions normally and the values displayed are normal.	<ol style="list-style-type: none"> 1. Please read the following information and the points listed under «Common sources of error». Repeat the measurement. 2. Please Note: Blood pressure fluctuates continually so successive measurements will show some variability
Blood pressure measured differs from those values measured by the doctor.	<ol style="list-style-type: none"> 1. Record the daily development of the values and consult your doctor. 2. Please Note: Individuals visiting their doctor frequently experience anxiety which can result in a higher reading at the doctor than obtained at home under resting conditions



To Be Noted For licensing, the device has been subjected to strict clinical tests, by which the computer program used to measure the blood-pressure values was tested by experienced specialist doctors in Germany. The same computer program is used in every individual device and has thus also been clinically tested. The manufacture of the devices takes place according to the terms of the European standard for blood-pressure measuring devices (see technical data) you must consult your specialist dealer or chemist if there are technical problems with the blood-pressure instrument. Never attempt to repair the instrument yourself!

8. CARE AND MAINTENANCE, RE-CALIBRATION

- a) Do not expose the device to extreme temperatures, humidity, dust or direct sunlight.
- b) The cuff contains a sensitive air-tight bubble. Handle this carefully and avoid all types of straining through twisting or buckling.
- c) Clean the device with a soft, dry cloth. Do not use petrol, thinners or similar solvent. Spots on the cuff can be removed carefully with damp cloth and soapsuds. The cuff must not be washed!
- d) Do not drop the instrument or treat it roughly in any way. Avoid strong vibrations.
- e) Never open the device! Otherwise the manufacturer calibration becomes invalid!

Periodical Re -calibration Sensitive measuring devices must be checked from time to time for accuracy. We therefore recommend a periodical inspection of the static pressure display every 2 years.

9. SAFETY, CARE AND DISPOSAL

Safety & Protection

- This instrument may be used only for the purpose described in this booklet. The manufacturer cannot be held liable for the damage caused by incorrect application.
- This instrument comprises of sensitive components and must be treated with caution. Observe the storage and operating condition described in the "Technical specifications" section!
- Protect it from
 - water and moisture
 - extreme temperatures
 - impact and dropping
 - contamination and dust
 - heat and cold
 - direct sunlight
- The cuffs are sensitive and must be handled with care.
- Only pump up the cuff once fitted.
- Do not use the instrument close to strong electromagnetic fields such as mobile telephones or radio installations.
- Do not use the instrument if you think it is damaged or notice anything unusual.
- If the instrument is not going to be used for a prolonged period, the batteries should be removed.
- The cuffs are sensitive and must be handled with care.
- Only pump up the cuff once fitted.
- Read the additional safety instructions in the individual sections of this booklet.



- Ensure that children do not use the instrument unsupervised as some parts are small enough to be swallowed.
- A warning to remove primary batteries if the instrument is not likely to be used for some time.
- Must use the recognized accessories, detachable parts and materials, if the use of other parts or mate.

10. TECHNICAL SPECIFICATIONS

Measurement Procedure:	Oscillometric, Corresponding to Korotkoff Method: Phase I: systolic, Phase V: diastolic
Display:	Digital Display
Measuring range:	Pressure: 30 to 280 mmHg (in 1 mmHg increment) Pulse: 40 to 199 beat/minute
Static accuracy:	Pressure: ± 3 mmHg / Pulse: $\pm 5\%$ of reading
Measuring resolution:	1 mmHg
Inflation:	Automatic inflation by internal pump

Memory function:	120 Reading for 2 users (SYS, DIA, Pulse)
Decompression:	Constant exhaust valve system
Power source:	4- size "AA" alkaline Batteries (adapter: micro USB DC5.0V /1.0A) optional
Operation temperature:	5~40°C/41~104°F
Operation humidity:	15%~85%RH maximum
Storage temperature:	-10~55°C/14~131°F
Storage humidity:	10%~95 % RH maximum
Dimensions:	135×112×71±1.0 mm
Weight:	510g±5g (including batteries and cuff)
Cuff pressure display range:	0~299 mmHg/0~39.9 kPa
Electrical shock protection:	Internal power unit



Safety classifications:	Type B equipment
Mode of operation:	Continuous operation
Protection against ingress	Ip22

CUSTOMER SUPPORT

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