

## 16. 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 headquarters 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®

# Dr Trust® I CHECK PRO-116



**Press & Hold  
2.5 sec for 2X Measurement**



**Scan to View  
Product Demo**

[www.drtrustusa.com/116](http://www.drtrustusa.com/116)

**USER  
INSTRUCTIONS**

*Thank you for purchasing the Dr Trust I Check Pro-116 with MDI Blood Pressure Monitor. Designed for convenient and easy operation, this device provides a simple, yet accurate method to measure your blood pressure. Before using, please read through this instruction manual carefully and then keep it in a safe place for future reference.*

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## 1. INTRODUCTION

Your blood pressure is an important parameter that can be used to monitor your health. Dr Trust ICheck Pro-116 with MDI Blood Pressure Monitor enables you to monitor your blood pressure regularly, and helps to maintain a record of your blood pressure measurements. You can then share this record with your physician for further recommendations. This digital BP measuring device is fully automatic and comes with integrated time/date display. Intended for use on the upper-arm, the device gives quick and reliable measurements of the systolic and diastolic blood-pressure as well as the pulse frequency through the Measurement During Inflation (MDI) technology. This device is intended to be used at health facilities, fitness centers and other public facilities for blood pressure measurements of the visitors. It can also be used in outpatient clinics of general hospitals for BP measurements of patients. It is equipped with Cuff Ok indicator to recognize right cuff wrapping. The device also has an arm movement detector which indicates if your body positioning is not correct during the measurement.

### 1.1. Measurement Principle- MDI Technology

DrTrust ICheck Pro-116 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 and hardly creates any pressure on the arm. It allows accurate consecutive blood pressure measurements on the upper arm with minimal deviation. It measures diastolic blood pressure first during inflation and gives instant results without deflating. It classifies measurements according to the WHO evaluation system using Traffic-Light Colour scale. Better accuracy is ensured in case of repeated measurements. Also, allows for immediate repeat measurement for comparison with least difference.

### 1.2. Key Features of Dr Trust ICheck Pro-116 with MDI

- The device is intended for self-use at home.
- The device offers 2X measurement option for very high accuracy.
- Comes with arm movement detector and cuff Ok indicator.

- BP measurement can be performed using either the right or left arm.
- The arm cuff is inflated around the arm by pressing the START/STOP button and deflation speed is automatically controlled.
- Easy to operate as no special adjustment is required.
- The whole testing procedure is done with a touch automatically for a quick and easy measurement.
- It is a fully automatic, digital, blood pressure measuring device with MDI technology.
- 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. However, if the irregularity appears several times a week with measurement taken daily, we advise you to consult your doctor instantly.
- Hypertension Classification Indicator displays the range between which your blood pressure values lie.
- Memory feature allows to store 120 blood pressure readings for 2 users along with date & time.
- It has been designed to provide a maximum of user-friendliness.

### 1.3. Important Information About Self-Measurement

- Substitution of a different component might result in measurement error.
- Cuff is replaceable only by an original one.
- Do not use with neonatal patients.
- It will cause harmful injury to the patient or 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 pressurisation of cuff on any limb where intravascular access or therapy or an arteriovenous shunt is present. It could result in injury to the patient because of temporary interference in blood flow.
- Do not let the cuff pressure you on the arm which is on the side of a mastectomy.
- Not intended to be used together with HF surgical equipment.

### ⚠ Attention

#### Points To Be Noted

- Self-measurement means control, not diagnosis or treatment.
- Unusual values must always be discussed with your doctor.
- The pulse display is not suitable for checking the frequency of heart pacemakers.
- In cases of cardiac irregularity (Arrhythmia), measurements made with this instrument should only be evaluated after consultation with the doctor.
- For further questions on the subject of blood-pressure and its measurement, please contact your doctor.

#### 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 ON THE SUBJECT OF BLOOD-PRESSURE AND ITS MEASUREMENT

#### 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 reasons are some key causes that can contribute to the development of hypertension.

#### 2.2. How does high/low blood-pressure problem arise?

The level of blood-pressure is determined in a part of the brain, that we call cardiovascular centre, and adapted to the respective situation by way of feedback *via* the nervous system. To adjust the blood-pressure, the strength and frequency of the heart (Pulse), as well as the width of circulatory blood vessels is altered. The latter is effected by way of fine muscles in the blood-vessel walls. The level of arterial blood-pressure changes periodically during the heart activity: During the «blood ejection» (Systole) the value is maximal (systolic blood-pressure value), at the end of the heart's «rest period» (Diastole), the value is minimal (diastolic blood-pressure value). The blood-pressure values must lie within certain normal ranges in order to prevent particular diseases.

#### 2.3. What health problems are associated with high blood pressure?

Hypertension contributes to several serious health conditions. Atherosclerosis, Heart Diseases or Heart Failure, Stroke, Kidney Disease and Eye Disease are few among several potentially serious health conditions which are linked to high BP.

#### 2.4. 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 the systolic blood-pressure values lie between 140 mmHg and 159 mmHg and/or the diastolic blood-pressure values lie between 90 mmHg and 99 mmHg, likewise, you need to consult your doctor. Furthermore, regular self-checks will be necessary.



With blood-pressure values that are too low, i.e. systolic values under 100 mmHg and/or diastolic values under 60 mmHg, likewise, please consult your doctor. Even with normal blood-pressure values, a regular self-check with your blood-pressure monitor is recommended. In this way you can detect possible changes in your values early and react appropriately. 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
Optimal BP	between 100 and 120	between 60 and 80	Self-check
Normal BP	between 120 and 129	between 80 and 84	Self-check
High To Normal BP	between 130 and 139	between 85 and 89	Consult your doctor
Slight Hypertension	between 140 and 159	Between 90 and 99	Seek medical advice
Medium Hypertension	between 160 and 179	Between 100 and 109	Seek medical advice
Strong Hypertension	Higher than 180	Higher than 110	Urgently seek medical advice!

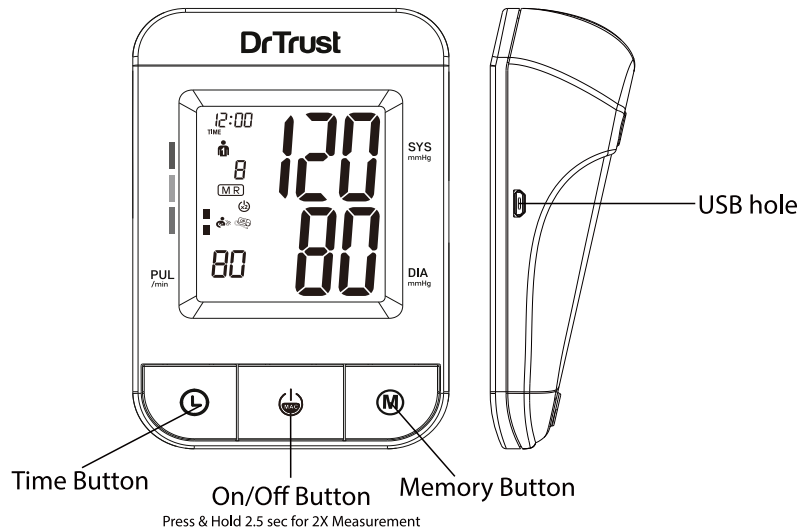
**Further Information**

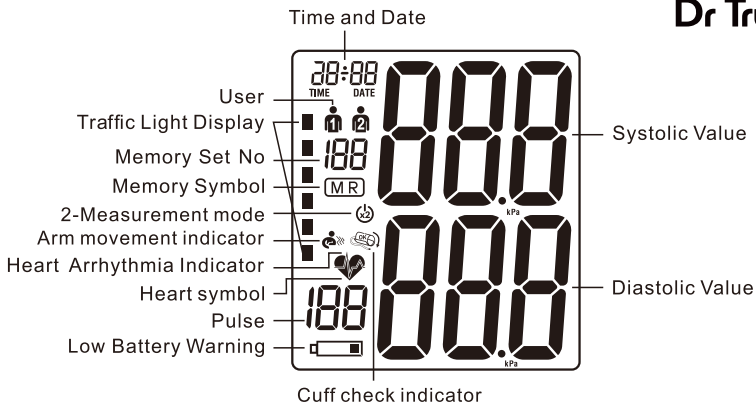
- If your values are mostly standard under resting conditions but exceptionally high under conditions of physical or psychological stress, it is possible that you are suffering from so-called «labile hypertension».
- Correctly measured diastolic blood-pressure values above 120mmHg require immediate medical treatment.

**⚠ Attention  
Points To Be Noted**

*Never use the results of your measurements to alter independently the drug doses prescribed by your doctor.*



**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 AAA 1.5V), after observing the indicated polarity.
- This is low battery  icon. It is warning symbol that appears in the display when the batteries remain 20%.
- If the battery warning  icon appears in the display, it means the batteries are empty and must be replaced by new ones.

##### ⚠ Attention

##### To be Noted

- After the battery warning  icon appears, the device is blocked until the batteries have been replaced.
- Please use «AAA» Long-Life or Alkaline 1.5V Batteries.
- The use of 1.2V Accumulators is not recommended.

- If the blood-pressure monitor is left unused for a long period, please remove the batteries from the device.

##### 4.2. Reading The Set Date

Please press the TIME button and the date will be shown in the display.

##### 4.3. User Selection And Setting The Time / Date

**User selection:** This advanced blood pressure monitor allows you to track blood pressure readings for 2 individuals independently.

- Before measurement, make sure you set the unit for the intended user. The unit can track results for 2 individuals.
- Press the TIME button for at least 3 seconds. The display now indicates the set user, during which the set user blink, to confirm, press ON/OFF button.
- Click the MEMORY button to select user.

##### 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.

- Firstly, press the TIME button for at least 3 seconds then, user icon will blink. Then press TIME button again the display now indicates the set year, during which the four characters blink.
- The correct year can be entered by pressing the MEMORY button.
- 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 start 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 first 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. Once you have made your settings, press the TIME button (or TIME / DATE or TIME). The setting is confirmed and the clock starts running.
14. 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.

#### Attention

#### 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 find the desired value respectively.

## **5. CARRYING OUT A RELIABLE MEASUREMENT**

### **5.1. Before the Measurement**

To ensure a reliable reading follow these recommendations:

- Avoid eating, drinking alcohol, bathing, smoking as well as all forms of exertion directly before taking the measurement as all these factors influence the measurements.

- 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).
- 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.

#### Attention

#### To be Noted

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


#### **Common Sources Of Error**

- All efforts by the patient to support the arm can increase the blood-pressure. Make sure you are in a comfortable, relaxed position and do not activate any of the muscles of the measurement arm during the measurement. Use a cushion for support, if necessary.
- The performance of the BP Monitor can be affected by extremes of temperature, humidity and altitude.
- Avoid compression or restriction of the connection tubing.
- A loose cuff causes false measurements values.
- With repeated measurements, blood accumulates in the respective arm, which can lead to false results. Correctly executed blood-pressure measurements should therefore first be repeated after a 5 minute pause or after the arm has been held up in order to allow the accumulated blood to flow away (after at least 3 minutes).

## 5.2. Fitting the cuff

Insert air connector into air outlet shown in left photo and make sure the air connector is fitted properly to avoid air leakage.

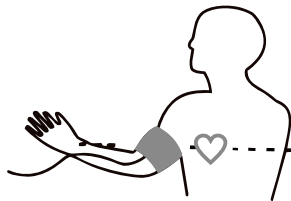
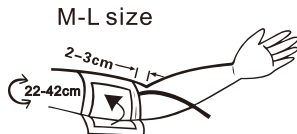
### Positioning the Cuff on The Arm Correctly

The right positioning of the cuff is very important to ensure accurate and reliable blood pressure measurement. As the Dr Trust Icheck Pro-116 comes with the Cuff Ok indicator, it guides users to the right cuff wrap by indicating  on the display. The cuff should not be wrapped too loose or tight around the arm.

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 flat on the floor, back and arm supported.





## 5.3. Start Taking BP Measurement


Select between the measuring modes; Standard Mode & MAC Mode


### 5.3.1. Measurement in Standard Mode (1-Measurement Mode)

After the cuff has been appropriately positioned, the measurement can be started:

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

b) **Cuff Fitting Detection:** the icon  will appear and blink during measuring, if cuff is fit too loose. The icon  will appear during measuring, if cuff is fit well.



c) **Arm Movement Detection:** Incorrect body position or moving too much can result in the wrong measurement. Just sit in a chair with your feet flat on the floor and do not talk or move during the measurement. If the body or arm movement error is detected during the measurement, the icon  will appear. Repeat the measurement for getting accurate results.

d) 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  flashes at every heartbeat. When the device has detected the pulse, the heart symbol in the display begins to blink for every pulse beat. The measured systolic and diastolic blood-pressure values as well as the pulse frequency are now displayed.

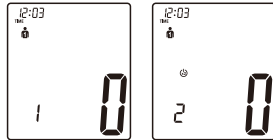
The measurement results are displayed, until you switch the device off. If no button is pressed for 3 minutes, the device switches automatically off, to save the batteries.

**5.3.2. Measuring in MAC Mode (2-Measurement Mode)**

In MAC mode, 2 measurements are automatically taken in succession and the result is then automatically analyzed and displayed. Because blood pressure constantly fluctuates, a result determined in this way is more reliable than one produced by a single measurement.

a) Press and hold the ON/OFF button  about 2 seconds, the symbol  appears in the display.

b) The middle, left hand section of the display shows a 1, 2 to indicate which of the 2 measurements is currently being taken.




There is a break of 15 seconds between the measurements. A countdown indicates the remaining time.

c) The individual results are not displayed. Your blood pressure will only be displayed after all 2 measurements are taken.

d) Do not remove the cuff between measurements.

e) If one of the individual measurements is questionable, a third one is automatically taken.

**During the Measurement:**

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  flashes at every heartbeat. When the device has detected the pulse, the heart symbol in the display begins to blink for every pulse beat.



Measured result :

The measured systolic and diastolic blood-pressure values as well as the pulse frequency are now displayed.

Example 1:

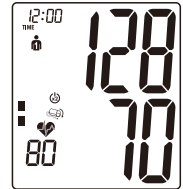
Example (Fig.): Systole 126, Diastole 85, Pulse 78  
Cuff fit well.



Example 2:

Systole 128, Diastole 70, Pulse 80

arrhythmia  detected, cuff fit loose

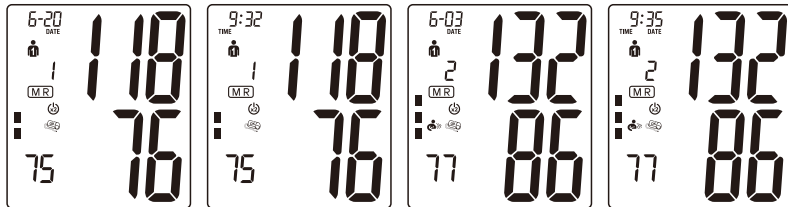


**5.4. Discontinuing a Measurement**

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.

### 5.6. Memory-Storage And Recall Of The Measurements

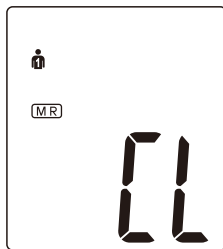
The blood-pressure monitor automatically stores each of the last 120 measurement values with user identity. By pressing the MEMORY button, an average value of the last 3 measurements as well as the last measurement and the further last 120 measurements (MR119,MR118,...,MR1) can be displayed one after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



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

### 5.7. Memory- Cancellation Of All Measurements

Before you delete all readings stored in the memory, make sure you will not need refer to the readings later. 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. and all stored readings would be deleted permanently.



### 6. APPEARANCE OF THE PULSE 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. <b>Reason:</b> 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.
Err8	The pressure in the cuff is too high (over 290 mmHg)

**Further Information-** The level of blood-pressure is subjected to fluctuations even with healthy people. Important thereby is, that comparable measurements always require the same conditions (Quiet conditions)! If, in spite of fulfilling all these factors, the fluctuations are larger than 15mmHg, and/or you hear irregular pulse tones on several occasions, please consult your doctor.



### 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"> <li>1. Check batteries for correct polarity and if necessary insert correctly.</li> <li>2. If the display is unusual, re-insert batteries or exchange them.</li> </ol>
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"> <li>1. Check the positioning of the cuff.</li> <li>2. Measure the blood-pressure again in peace and quiet under observance of the details made under point 5.</li> </ol>
Every measurement produces a different value although the instrument functions normally and the values displayed are normal	<ol style="list-style-type: none"> <li>1. Please read the following information and the points listed under «Common sources of error». Repeat the measurement. <b>Please Note:</b> Blood pressure fluctuates continually so successive measurements will show some variability.</li> </ol>
Blood pressure measured differs from those values measured by the doctor.	<ol style="list-style-type: none"> <li>1. Record the daily development of the values and consult your doctor. <b>Please Note:</b> Individuals visiting their doctor frequently experience anxiety which can result in a higher reading at the doctor than obtained at home under resting conditions.</li> </ol>

### 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! Any unauthorized opening of the instrument invalidates all warranty claims!

### 8. CARE AND MAINTENANCE, RE-CALIBRATION

- Do not expose the device to extreme temperatures, humidity, dust or direct sunlight.
- The cuff contains a sensitive air-tight bubble. Handle this carefully and avoid all types of straining through twisting or buckling.
- 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 a damp cloth and soapsuds. The cuff must not be washed!
- Do not drop the instrument or treat it roughly in any way. Avoid strong vibrations.
- 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. BATTERY LIFE

1000 times measurement with 4- size "AAA" alkaline Batteries

### 10. SAFETY, CARE AND DISPOSAL

#### Safety & Protection

- This instrument may be used only for the purpose described in this booklet. The manufacturer will not be responsible for the damage caused by incorrect application.
- This instrument comprises sensitive components and must be treated with caution.
- Observe the storage and operating conditions described in the "Technical specifications" section!
- Protect it from water and moisture, extreme temperatures, impact and dropping, contamination and dust, direct sunlight, heat and cold.

- 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.
-  Read the additional safety instructions in the individual sections of this booklet. Ensure that children do not use the instrument unsupervised: some parts are small enough to be swallowed.
- Must use the recognized accessories, detachable parts and materials, if the use of other parts or materials can degrade minimum safety.
- A warning to remove primary batteries if the instruments is not likely to be used for sometime

**⚠Attention  
To be Noted**

- Always clean the instrument only with a soft and dry cloth.
- Do not submerge the device or any of the components in water.
- Do not allow the BP monitor to strong shocks, such as dropping the unit on the floor.
- Store the device and the components in a clean, safe location.
- Do not disassemble or attempt to repair the unit or components as it will void the user warranty.

**Disposal**



Batteries and electronic instruments must be disposed off in accordance with the locally applicable regulations, not with domestic waste.










**11. REFERENCE TO STANDARDS**

**Device standard:** Device corresponds to the requirements of the European standard for non-invasive blood pressure monitor

IEC60601-1-6:2010+A1:2013/ EN6060-11-6:2010+A1:2015
IEC60601-1:2005+A1:2012/EN6060-11:2006+A11:2011+A1:2013+A12:2014
IEC60601-1-2:2014/ EN60601-1-2:2015
IEC/EN60601-1-11:2015
IEC80601-2-30:2009+A1:2013/EN8060-12-30:2010+A1:2015

The stipulations of the EU-Guidelines 93/42/EEC for Medical Products Class IIa have been fulfilled.

**12. REMARK**

	Some electrical and electrical equipments forbid to abandon and disposal at will	 0197	TUV NO.
	Manufacturer's name and address		Reading Instruction Book before use
	Inapplicable baby		Type BF equipment
	Cuff Connector	Protection against ingress of water	IP22
	Attention consult accompanying documents		MedNet GmbH, Borkstrasse 10, 48163 Münster, Germany

**13. TECHNICAL SPECIFICATIONS**

<b>Display:</b>	Digital display
<b>Measuring range:</b>	Pressure: 30 to 280 mmHg (in 1 mmHg increment) Pulse: 40 to 199 beat/minute
<b>Static accuracy:</b>	Pressure ±3mmHg / Pulse: ±5% of reading
<b>Measuring resolution :</b>	1mmHg
<b>Inflation:</b>	Automatic inflation by internal pump
<b>Memory function:</b>	2 x 120 memories for 2 users (SYS, DIA, Pulse)
<b>Decompression:</b>	Constant exhaust valve system
<b>Power source:</b>	4- size "AAA" alkaline Batteries
<b>Operation temperature:</b>	5~40°C/41~104°F
<b>Operation humidity:</b>	15%~80%RH maximum
<b>Storage temperature:</b>	-20~+55°C/-4~+131°F
<b>Storage humidity:</b>	10%~95%RH maximum
<b>Dimensions :</b>	135 x 90 x 41 ±1.0 mm
<b>Weight :</b>	375 g±5g (including batteries and cuff)
<b>Cuff pressure display range:</b>	0~290mmHg/0~38.7KPa

Please note it down, the power adapter (**micro USB DC5.0V / 1.0A** ) is not supplied from the origin, users can buy the adapter in the market which must comply to EN60601-1, EN60601-1-2.

**14. MANUFACTURER'S DECLARATION**


Dr Trust Icheck Pro-116 with MDI is intended for use in the electromagnetic environment specified below. The customer or the user of Dr Trust Icheck Pro-116 with MDI should assure that it is used in such an environment.

**Electromagnetic Emissions: (IEC60601-1-2)****Electromagnetic Emissions: (IEC60601-1-2)**

<b>Emission Test</b>	<b>Compliance</b>	<b>Electromagnetic Environment</b>
RF emission CISPR 11	Group 1	Dr Trust Icheck Pro-116 with MDI uses RF energy only for internal functions. Therefore, this RF emission is extremely weak and there is little chance of it creating any kind of interference whatsoever with nearby electronic equipment.
RF emissions CISPR 11	Class B	Dr Trust Icheck Pro-116 with MDI is suitable for use in all establishments, including domestic establishments and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/flicker IEC 61000-3-3	Not applicable	

**Electromagnetic Immunity: (IEC60601-1-2)**

Immunity test	IEC60601-1-2 test level	Compliance level	Electromagnetic environment guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electric fast transient/ burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV differential mode ±2 kV common mode	Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5 % $U_T$ ( 95% dip in $U_T$ ) for 0.5 cycle 40 % $U_T$ ( 60% dip in $U_T$ ) for 5 cycles 70 % $U_T$ (30% dip in $U_T$ ) for 25 cycles <5 % $U_T$ ( 95% dip in $U_T$ ) for 5 sec.	Not applicable	Mains power quality should be that of a typical commercial or hospital environment. If the user of the upper arm style requires continued operation during power mains interruptions, it is recommended that Dr Icheck Pro -116 with MDI be powered from an uninterruptible power supply or a battery.
Power frequency (50/ 60 Hz) magnetic field IEC 61000-4-8	3 A/m	Not applicable	Not applicable

Note: U <sub>r</sub> is the a.c. mains voltage prior to application of the test level.			
Immunity test	IEC60601-1-2 test level	IEC60601-1-2 test level	Electromagnetic environment guidance
Conducted RF IEC 61000-4-6	3 V <sub>rms</sub> 150 kHz to 80 MHz 80% AM (2Hz)	3 V <sub>rms</sub>	Portable and mobile RF communications equipment should be used no closer to any part of Dr Icheck Pro-116 with MDI, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. <b>Recommend separation distance</b> 3V $d = 1.2 \times P^{1/2}$ 80MHz to 800 MHz $d = 2.3 \times P^{1/2}$ MHz to 2.5 GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).
Radiated RF IEC 61000-4-3	3 V <sub>rms</sub> 80 MHz to 2.5 GHz 80% AM (2Hz)	3 V/m	Field strengths from fixed RF transmitters as determined by an electromagnetic site survey <sup>2</sup> , should be less than the compliance level in each frequency range <sup>3</sup> . Interference may occur in the vicinity of equipment marked with the following symbol: 
<b>Note 1:</b> At 80 MHz and 800 MHz, the higher frequency range applies.			
<b>Note 2:</b> These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.			

<sup>2</sup>Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Dr Trust Icheck Pro-116 with MDI is used exceeds the applicable RF compliance level above, Dr Trust Icheck Pro-116 with MDI should be observed to verify normal operation.

If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating DrTrust Icheck Pro-116 with MDI.

<sup>b</sup>Over the frequency range 150 kHz to 80MHz, field strengths should be less than 3V/m.

**Recommended Separation Distances:**

Recommended separation distance between portable and mobile RF communications equipment and DrTrust Icheck Pro-116 with MDI.

Dr Trust Icheck Pro-116 with MDI is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of Dr Trust Icheck Pro-116 with MDI can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and Dr Trust Icheck Pro-116 with MDI as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter (W)	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = 1.2 \times P^{1/2}$	80 MHz to 800 MHz $d = 1.2 \times P^{1/2}$	800 MHz to 2.5 GHz $d = 2.3 \times P^{1/2}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance  $d$  in meters (m) can be determined using the equation applicable to the frequency of the transmitter, where  $P$  is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

**Note1:**At 80MHz and 800MHz, the separation distance for the higher frequency range applies

**Note2:** These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

**15. CUSTOMER SUPPORT**

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