ALDI

User Manual

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crane

Bluetooth® Blood Pressure Monitor

MANUAL DEVELOPED IN GERMANY
hanse control
myhansecontrol.com
User-friendly Manual
ID: #05007

Product Info

www.aldi.co.uk

+ VIDEO

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A QR code (QR = Quick Response) is a type of matrix that can be read with a smartphone camera and that contains a link to a website or contact details, for example.

Advantage: You do not need to manually enter a website address or contact details.

This is how it works

To scan the QR code, all you need is a smartphone with QR code reader software and an internet connection*. This type of software can be downloaded for free from your app store.

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Your Aldi Service Portal

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* Depending on your tarif plan you may be charged for the connection.

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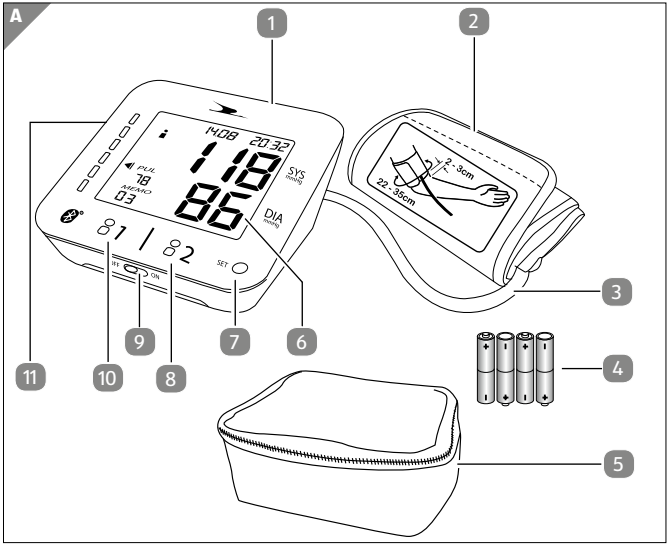
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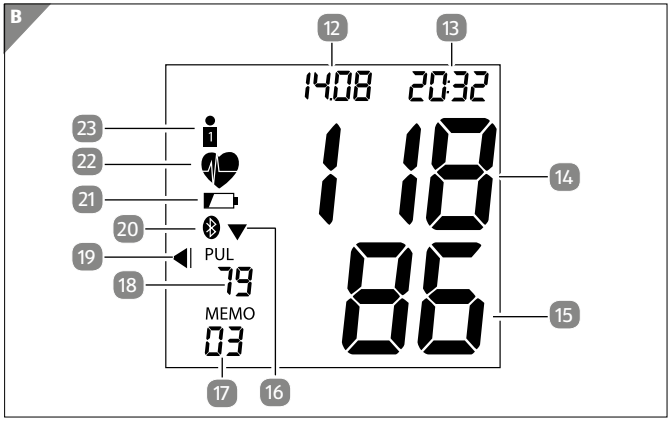
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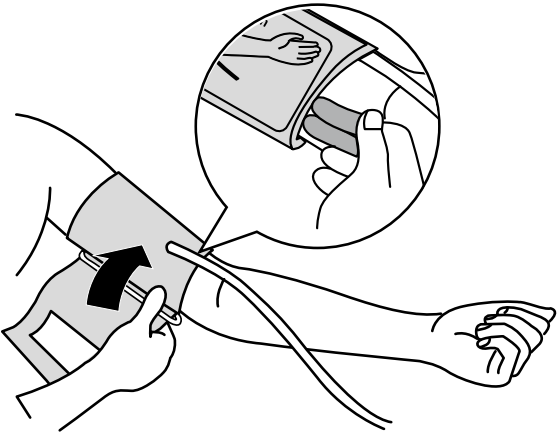

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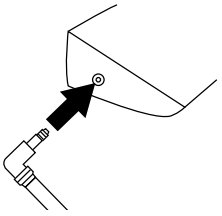

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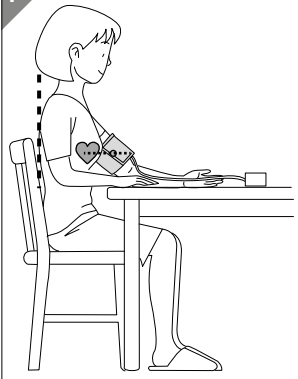


Product contents/device parts

1. Measurement computer
2. Cuff
3. Cuff hose
4. Batteries (AAA), 4x
5. Bag
6. Display
7. SET button
8. User 2 touch button
9. ON/OFF switch for User 1 and User 2 touch button
10. User 1 touch button
11. Connector jack for the cuff hose
12. Date indicator
13. Time indicator
14. Indicator for systolic pressure
15. Indicator for diastolic pressure
16. Air release indicator
17. Memory slot indicator
18. Pulse indicator
19. Indicator for measurement classification according to the WHO
20. Bluetooth® indicator
21. Battery indicator
22. Arrhythmia indicator/pulse indicator
23. User indicator

General information

Reading and storing the instruction manual

This instruction manual accompanies this Bluetooth® blood pressure monitor. It contains important information on how to set up and handle the device.

For improved readability, the Bluetooth® blood pressure monitor will be referred to merely as the “blood pressure monitor” below.

Before using the blood pressure monitor, read the instruction manual carefully. This particularly applies for the safety notes. Non-observance of this instruction manual may cause damage to the blood pressure monitor.

The instruction manual is based on the standards and rules in force in the European Union. When abroad, you must also observe country-specific guidelines and laws.

Store the instruction manual for future use. Make sure to include this instruction manual when passing the blood pressure monitor on to third parties.

Explanation of symbols

The following symbols and signal words are used in this instruction manual, on the packaging or on the blood pressure monitor.

WARNING! This signal word designates a hazard with a moderate degree of risk which may lead to death or severe injury if not avoided.

CAUTION! This signal word designates a hazard with low risk that, if not avoided, may result in minor or moderate injury.

NOTICE! This signal word warns against possible damage to property or provides you with useful additional information on use.

CE 0123 Declaration of conformity (see chapter "Declaration of conformity"): Products marked with this symbol fulfil the requirements of the CE directive for medical products.

This symbol indicates that the warranty for the blood pressure monitor amounts to 36 months (3 years).

This symbol identifies devices classified as type BF.

This symbol indicates that the device must be protected against wetness.

This symbol indicates that you should read the instruction manual and hold onto it.

This symbol identifies information from the manufacturer (see chapter “Manufacturer information”).

This symbol identifies information from the manufacturer's representative in the European Union (see chapter “Manufacturer information”).

This symbol identifies devices that emit non-ionising electromagnetic radiation (see chapter “Electromagnetic compatibility”).

This symbol signalises disposal instructions for packaging material (see chapter “Disposal instructions”).

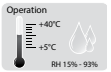
This symbol identifies devices that are operated with direct current (see chapter “Technical data”).

This symbol signalises legal regulations for the disposal of electrical devices (see chapter “Disposal instructions”).

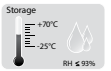
This symbol signalises legal regulations for the disposal of rechargeable batteries and batteries (see chapter “Disposal instructions”).

SN

This symbol identifies the serial number of the device.



This graphic identifies permissible operating conditions (see chapter “Technical data”).



This graphic identifies the permissible storage conditions (see chapter “Technical data”).

Safety

Proper use

The blood pressure monitor is designed for non-invasive measuring and monitoring of arterial blood pressure levels of adults (patients). Your pulse rate is also shown on the display of the blood pressure monitor.

The blood pressure monitor issues a warning in the

event of cardiac arrhythmia. The levels measured are classified and rendered in accordance with the guidelines of the WHO (World Health Organisation).

The patient is also intended to be the user. The blood pressure monitor is exclusively intended for private use and is not suitable for commercial or clinical use. The blood pressure monitor is not a children's toy.

Only use the blood pressure monitor as described in this instruction manual. Any other use is deemed improper and may result in injury to persons or damage to the blood pressure monitor.

The manufacturer or vendor accepts no liability for damage caused by improper or incorrect use.

Safety notes

WARNING!
Danger for children and persons with impaired physical, sensory or mental capacities (e.g. partially disabled persons, older persons with reduced physical and mental capacities) or lack of experience and knowledge (e.g. children).

- The blood pressure monitor may not be used by children under the age of 8. Keep the blood pressure monitor and its accessories away from children under the age of 8.
- The blood pressure monitor may be used by children ages eight and over as well as persons with impaired physical, sensory or mental capacities or those lacking experience and/or knowledge if they are supervised or have been instructed in how to safely use the blood pressure monitor and have understood

the risks associated with operating it.
- Do not allow children to play with the packaging wrapper. They may get caught in it and suffocate.

WARNING!
Risks associated with improper handling of the batteries!

The blood pressure monitor is battery-operated. Improper handling of the batteries may result in injury and damage to property.

- Store the batteries in an area that is not accessible for children. If you suspect that a child has swallowed a battery, immediately contact a physician.
- Never expose the batteries to excessive heat such as direct sunlight, open flames or similar.
- Do not charge the batteries and do not reactivate them with other means.
- Do not short circuit the batteries.
- Do not open the batteries.

- To prevent the batteries from leaking, only insert batteries of the same type in the blood pressure monitor.
- If necessary, clean the battery and device contacts before inserting the batteries.
- Make sure that the polarity is correct when inserting the batteries.
- Promptly remove empty batteries from the blood pressure monitor.
- If a battery in the blood pressure monitor has leaked, put on protective gloves and use a dry cloth to clean the battery compartment.
- Do not allow battery acid to come into contact with skin, eyes or mucus membranes. In the event of contact with battery acid, immediately flush the applicable areas with plenty of clean water and consult a physician immediately.
- If you do not use the blood pressure monitor for a prolonged period, remove the batteries from the battery compartment.

NOTICE!
Risk of damage!

Improper use of the blood pressure monitor may result in inaccurate measurements and damage to the blood pressure monitor.

- Do not expose the blood pressure monitor to strong magnetic fields (e.g. transformers). Otherwise this could cause errors in data transmission or damage to the blood pressure monitor.
- Only use the blood pressure monitor at an ambient temperature of + 5 °C to + 40 °C and a humidity of 15 % to 93 %.
- Do not open the blood pressure monitor.
- Protect the device against dirt, direct sunlight, severe temperature fluctuations, chemicals and mechanical shocks.
- Do not let the device fall down.
- Only use enclosed or original replacement cuffs to ensure that the measurements are correct.
- Do not start the measurement process until the cuff has been fitted.
- Do not immerse the blood pressure

monitor in water and do not rinse it off under running water.
- Protect the cuff and cuff hose from sharp and pointy objects.
- Do not kink the cuff hose.
- Do not place any heavy objects on the blood pressure monitor, the cuff or cuff hose.

Checking the product contents

NOTICE!
Risk of damage!

If you are not cautious when opening the packaging with a sharp knife or other pointy object, you could damage the blood pressure monitor.
- You should therefore be very careful when opening it.

1. Take the blood pressure monitor out of the packaging and remove the packaging material.
2. Take the protective plastic foil off of the display of the measurement computer.

3. Check to make sure that the delivery is complete (see **fig. A**).
4. Check whether the blood pressure monitor or the individual parts exhibit damages. If this is the case, do not use the blood pressure monitor. Contact the manufacturer at the service address specified on the warranty card.

Crane Connect app

The blood pressure monitor is designed to measure blood pressure and pulse. The data measured are transmitted to a smartphone or tablet via Bluetooth®. With the free Crane Connect app (hereinafter referred to as "app") you can save and analyse this data on your smartphone or tablet.

If the Internet connection on your smartphone or tablet is active, the Crane Connect app will automatically upload the measurements to the website www.cranesportsconnect.com and permanently save them in your user account.

The blood pressure monitor can record, save and transfer data from two different users.

You can also use the blood pressure monitor without being connected to the app. The blood pressure monitor has 60 memory slots for each user. Once all 60 memory slots are occupied, the next measurement will overwrite the oldest entry.

The data saved is transferred to the app the next time you connect the blood pressure monitor with the app.

Compatibility

The following smartphones and tablets with Bluetooth® Smart Ready (Bluetooth® 4.0) are compatible with the blood pressure monitor and app:

- Apple® iPhone® 4s and more recent versions
- Apple® iPad® 3rd generation and more recent versions
- Apple® iPad mini™ 1st generation and more recent versions
- Apple® iPad Air™ and more recent versions
- Smartphones and tablets with Android™ 4.3 and more recent versions

You can find a detailed list of compatible devices on the following website:

www.cranesportsconnect.com/compatibility.

Description of the device

The blood pressure monitor consists of a measurement computer, a cuff that inflates automatically and a cuff hose that connects the cuff with the measurement computer.

A display, multiple LEDs and function buttons are located on the measurement computer. They are described below.

Control elements

The control elements can be used to make various settings on the measurement computer (see **Fig. A**).

Control element	Functions
User 1 touch button 10 and user 2 touch button 8	– Start/stop the measurements – Access the measurements – In Setting mode: Decrease and/or increase the value – Changing the mode
SET button 7	– Save the data and time settings – Stop the measurements – Manually connect to the app – Change of mode when an error is displayed
ON/OFF switch 9	– Activate and/or deactivate the user 1 and user 2 touch buttons

Display

Different data will be shown on the display (see **fig. B**).

Display	Description
Date indicator 12	The date is shown here. It will be saved with the measurements. It therefore makes sense to set the right data on the measurement computer.
Time indicator 13	The time is shown here. It is saved with the measurements. It therefore makes sense to set the correct time on the measurement computer.
Indicator for systolic pressure 14	The systolic pressure is shown in mmHg here (millimetres of mercury).
Indicator for diastolic pressure 15	The diastolic pressure is shown in mmHg here (millimetres of mercury).
Air release indicator 16	This symbol is shown when the blood pressure monitor releases air from the cuff.
Memory slot indicator 17	Here, the memory slot being used for the current measurement is shown. 60 memory slots are available per user.

Display	Description
Pulse indicator 18	Here, the pulse recorded during blood pressure measurement is shown in beats per minute (bpm).
Display of the measurement classification according to the WHO 19	The LEDs indicate the classification of the blood pressure levels measured according to the WHO scale. You can find details in the chapter “Evaluating measurements”.
Bluetooth® indicator 20	This symbol indicates whether data transmission via Bluetooth® is active.
Battery indicator 21	The battery indicator lights up when the batteries are empty and have to be replaced.
Arrhythmia indicator/pulse indicator 22	This symbol blinks during the measurement to show that a pulse is being measured. Once the measurement is complete, the indicator will report any potential cardiac arrhythmia detected during the measurement. You can find details in the chapter “Evaluating measurements”.

Display	Description
User indicator 23	The user currently performing a measurement or retrieving measurements is shown here.

LED indicator

The 6 LEDs on the left side of the display indicate the classification of the measurements according to the WHO scale. The indicator is colour-coded. For details on the WHO classification, see the chapter “Evaluating measurements”.

Colour	**Meaning**
Green	Optimal
Green	Normal
Green	Elevated normal
Yellow	Slight hypertension
Orange	Moderate hypertension
Red	Severe hypertension

Device modes

The blood pressure monitor has five different modes, which are explained below.

In all modes, the display light turns off after 30 seconds of user inactivity.

After 1 minute of user inactivity, the measurement computer will switch to sleep mode.

Sleep mode

After all settings have been made and the device is activated, the blood pressure monitor automatically switches to sleep mode. The display light and WHO-LEDs are deactivated in this mode.

You can also manually transfer data to the app on your smartphone or tablet from sleep mode (see chapter "Manual data transfer").

From sleep mode, you can switch to the other modes as follows:

Mode	Switching modes
Setting mode for date and time	Push the "SET" button to access the setting mode for date and time and to activate or deactivate Bluetooth®.
Measurement mode	Tap the user 1 touch button once to access the measurement mode for user 1. Tap the user 2 touch button to access the measurement mode for user 2.

Mode	Switching modes
Transmission mode	Hold the SET button for approx. three seconds to access the transmission mode for manual data transmission.
Memory mode	Press and hold the user 1 touch button for approx. three seconds to access the save mode for user 1. Press and hold the user 2 touch button for approx. three seconds to access the memory mode for user 2.

Setting mode

In setting mode, you can set the time format, date, time and automatic data transmission after a measurement (see chapter "Setting the measurement computer").

Measurement mode

In measurement mode, you can measure blood pressure and automatically transfer the data to the app on your smartphone or tablet (see chapter "Performing a measurement").

Transmission mode

In transmission mode, data from the blood pressure monitor is transferred to the app on your smartphone

or tablet. With automatic data transmission, the blood pressure monitor will directly switch to transmission mode once the measurement has been performed (see chapter “Performing a measurement”).

For manual data transmission, you must switch the blood pressure monitor to transmission mode yourself (see chapter “Manual data transfer”).

Memory mode

In memory mode, you can have the measurements shown on the display of the measurement computer (see chapter “Viewing the measurements on the measurement computer”) and erase the measurements for a user (see chapter “Erasing measurements”).

Start-up

Inserting batteries

NOTICE!

Do not use your blood pressure monitor with rechargeable batteries.

1. Open the battery compartment on the bottom of the device.
2. Insert the four batteries contained in the product contents in the battery compartment. In the process, observe the marking for the correct polarity.

3. Close the battery compartment. All indicator segments will briefly appear on the display 6 (see **fig. A** and **B**). Then the display will switch on and the "24 h" time format will blink on the display.

The measurement computer is now ready for the basic settings.

Setting the measurement computer

The results from each successful measurement are saved together with the time and date. For this, first the time format, date and time must be entered on the measurement computer properly. Proceed as follows:

1. If "24 h" blinks on the display, tap the touch buttons for user 1 10 or user 2 8 to switch between the "12 h" and "24 h" time formats (see **fig. A**).
2. Push the SET button 7 to save the time format setting. The year indicator will now blink.
3. Tap the touch buttons for user 1 or user 2 to set the current year.
4. Confirm your setting with the "SET" button.
5. You can set the month, day, hours and minutes in the same manner. Then "On" or "OF" will blink on the display.
6. Tap the touch buttons for user 1 or user 2 to activate or deactivate Bluetooth® on the measurement computer. Bluetooth® is activated by factory default.

   In general, you should only switch Bluetooth® off

if you don't want to transfer measurements to your smartphone or tablet.

7. Confirm the Bluetooth® setting with the “SET” button. The display will switch off.

The measurement computer is now ready for use.

Installing the app

1. Download the free Crane Connect app from the App Store or from the Google Play Store. You can also download the app by scanning one of the following QR codes:

   For iOS:

   For Android™:

   You can also download the app under the following URL:
   www.cranesportsconnect.com/downloads.

2. Install the app on your smartphone or tablet. For this, follow the on-screen instructions.

Creating a user account

The blood pressure monitor has 2 user memory slots for storing your individual measurements and those of family members for example. For this purpose, an own user account must be set up in the app for each of these users.

To create a user account with the app, follow the steps below:

1. Start the app.

   You will be directed to the “Home” menu.
2. Select the app icon “All Settings”.
3. To create a new user or log on with an existing user, select the app icon “User Settings”.
4. Follow the step-by-step instructions provided in the app.
5. Once the user settings are complete, return to the “All Settings” menu.

You can also create your user data on the following website: www.cranesportsconnect.com.

Configuring users

In order for the blood pressure monitor to send the correct data to your smartphone or tablet, you must now assign user 1 or 2 from the blood pressure monitor to your user account.

1. Start the app on your smartphone or tablet if you have not already done so.
2. Select the app icon “All Settings”.
3. Select the icon “Blood Pressure Monitor”. You will access the other settings for the blood pressure monitor.
4. Set user 1 or user 2 in the “Settings” menu. With the user set here, you must perform the measurements

on the blood pressure monitor later on so that the app properly recognises your data.

5. After you have selected the user, return to the "Home" menu. From there, you can access all analyses of the measurements via the app icon "Blood Pressure Monitor".

The app is now ready to receive measurements from the blood pressure monitor.

Handling

Performing a measurement

Caution!
Risk of injury!

Using the blood pressure monitor improperly poses a risk of injury, among other things by impaired circulation of blood.

- Avoid prolonged exposure to the pressure exerted by the cuff, e.g. by kinking the cuff hose and by performing prolonged or frequent measurements.
- Do not place the cuff over wounds to prevent further injury.
- Remove the cuff from your arm in the event of a malfunction.

NOTICE!

For ideal measurement results, follow the basic rules below when measuring your blood pressure.

- If possible, always measure your blood pressure at the same time of day for comparable results.
- At least 30 minutes before you perform a measurement, do not smoke, eat or drink and avoid physical exertion.
- Give your circulatory system about five minutes to calm down each time before you perform a measurement.
- If the measurements are not plausible, repeat the measurement.
- Wait at least five minutes before taking another measurement for the same person.
- The results of your blood pressure measurements are for your information and are no substitute for a medical examination. Do not make any medical decisions based on your own measurements (e.g. with respect to taking medication or their dosage). Consult your physician if you have questions about the measurements.
- Do not use this blood pressure monitor to perform any measurements on preeclampsia patients or newborn babies.

- Consult your physician before you use the blood pressure monitor on pregnant persons.
- Do not use the blood pressure monitor together with high-frequency surgical devices.
- Only use the device for persons with an upper arm circumference between 22 and 35 cm.
- The function of the affected body part may be impaired when inflating the cuff.
- The cuff hose may not be kinked, compressed or otherwise restricted.
- Always measure your blood pressure on the same arm – ideally, the left arm.
- Do not use the cuff on limbs whose arteries or veins are undergoing medical treatment e.g. in the form of intravascular access, intravascular therapy or arteriovenous (A-V) shunt.
- Do not fit the cuff on persons, who have undergone a mastectomy.
- Please keep in mind that the restriction of circulation through the inflation of the cuff may temporarily cause other measurement devices connected to the same body part to temporarily malfunction.
- Avoid performing frequent measurements and prolonged pressure in the cuff to prevent injury.
- The blood pressure monitor is battery-operated. Data transmission and data storage are only possible if the power supply is intact. The blood pressure monitor will lose the date and time if the batteries

are empty or have been changed. However, measurements that have been saved will remain intact.

– To save battery power, automatic switch-off will automatically switch the blood pressure monitor to sleep mode after more than 1 minute of key inactivity on the measurement computer.

The following illnesses or symptoms may result in incorrect measurements or affect the measurement accuracy of the blood pressure monitor:

- Diseases of the cardiovascular system,
- very low blood pressure,
- diabetes,
- circulatory disorder and cardiac arrhythmia,
- shivering,
- shaking.

Preparing a measurement

Establishing a Bluetooth® connection

If you would like to perform the measurement without direct data transmission, the data will be saved on the measurement computer. You can transfer them to the app later (see chapter “Manual data transfer”).

If you would like to automatically transfer the measurements to the app once measurement is complete, proceed as follows:

1. Make sure that the Bluetooth® function of your smartphone or tablet is switched on.

2. Start the app if you have not already done so.
3. Activate the user touch buttons with the ON/OFF switch 9 (see **fig. A**).
4. Make sure that Bluetooth® on your measurement computer is also on (see chapter "Setting the measurement computer").

Fitting the cuff

1. Expose the arm where you would like to measure the blood pressure. Use your left arm if possible.
2. Wrap the cuff 2 around the exposed upper arm (see **fig. C**).

   The bottom edge of the cuff must be 2–3 cm above the elbow and over the artery. The cuff hose 3 must point towards the middle of your palm.
3. Now place the free end of the cuff around your arm.

   The cuff must be fitted tightly enough so that two fingers fit under the cuff.
4. Once the cuff has been properly fitted, close the Velcro strap.
5. Now connect the cuff hose with the connector jack 11 on the measurement computer 1 (see **fig. A** and **D**).

Assuming the correct posture

You can perform the measurement while sitting or lying down (see **fig. E** and **F**). Be absolutely sure to observe the following instructions:

1. The cuff must be roughly at the height of your heart, but no higher.
2. Rest your arms in a relaxed position.

   A chair with armrests or a table are required for measurements performed while sitting.
3. Do not move and do not speak while performing a measurement.

If you would like to measure your blood pressure while sitting, you must also observe these instructions:

4. Sit in a relaxed position when measuring your blood pressure and lean back.
5. Place your feet flat on the ground.
6. Do not cross your legs.

Starting a blood pressure measurement

NOTICE!

You can cancel blood pressure measurements that are in progress by pushing the SET button or the user 1 or user 2 touch button.

Proceed as follows to start the blood pressure monitor:

1. On the measurement computer 1, tap the user 1 touch button 10 or the user 2 touch button 8 depending on which user you have configured for yourself in the app (see **fig. A** and **B**).

   All display elements will be shown briefly. The last

measurement will then appear on the display 6 for one second. If no measurement has been performed yet, the device will not show any values.

2. The cuff will now inflate 2 and you will feel it tighten (see **fig. A**).

   If no measurements have been saved, the blood pressure monitor will inflate the cuff up to a pressure of 190 mmHg. Otherwise, the device will calculate the average systolic pressure of all previous measurements, add 40 mmHg and inflate the cuff to that value.

3. As soon as the blood pressure monitor detects your pulse, the pulse indicator will blink on the display 22. If this is not the case, the device will inflate again (see **fig. B**).

4. Once the measurement is complete, the entire air will be released from the cuff. The measurements for systolic pressure 14, diastolic pressure 15 and pulse 18 will appear on the display and be saved. The WHO-LED corresponding to the measured values will light up (see **fig. B**).

5. If you do not want to perform automatic data transmission, use the user 1 touch button 10 or the user 2 touch button 8 to switch the blood pressure monitor to sleep mode (see **fig. B**).

   If you have prepared the blood pressure monitor and your smartphone or tablet accordingly, automatic data transfer to the app will begin following the measurement:

6. The Bluetooth® symbol 20 will blink on the display 6. The blood pressure monitor will now attempt to connect to the app for approx. 30 seconds (see **fig. A** and **B**).
7. As soon as a connection has been established, the Bluetooth® symbol will stop blinking and all measurements will be automatically transferred to the app. Following successful transmission, the Bluetooth® symbol on the display will go out and the device will switch to sleep mode. If a transmission fails, the display will show the Bluetooth® symbol and the error code "E7" (see chapter "Troubleshooting").

Manual data transfer

NOTICE!

All function buttons on the blood pressure monitor are inactive during the data transfer.

If it is not possible to automatically transfer the measurements to your smartphone or tablet after the measurement, you can perform a manual transfer as follows:

1. Activate Bluetooth® on your smartphone or tablet.
2. Open the app.
3. Press and hold the SET button 7 for three seconds. The Bluetooth® symbol 20 will blink on the display

of the blood pressure monitor and a connect to the app will be established (see **fig. A** and **B**).

4. As soon as a connection has been established, the Bluetooth® symbol will stop blinking and all measurements will automatically be transferred to the app.
5. Once the transfer is successful, the Bluetooth® symbol on the display will go out. The device will switch to sleep mode. If it is not possible to perform a transfer, the display will show the Bluetooth® symbol and the error code "E7" (see chapter "Troubleshooting").

Viewing the measurements on the measurement computer

You can also view the measurements you saved directly on the measurement computer without a smartphone or tablet. Proceed as follows to do so:

1. Activate the user touch buttons on the measurement computer with the ON/OFF switch 9 (see **fig. A**).
2. Switch to memory mode by touching user 1 touch button 10 or user 2 touch button 8 for approx. three seconds until the WHO-LED lights up with the average value for all measurements (see **fig. A**).
3. You can now browse through the measurements of the respective user with the user 1 touch button 10 or user 2 touch button 8 (see **fig. A**). Tap the respective button once to browse further.

The data will be displayed in this order:

- Average values for all measurements
- Average values for the last seven measurements from 05:00 a.m. to 09:00 a.m.
- Average values for the last seven measurements from 06:00 p.m. to 08:00 p.m.
- 60th measurement (last) up to the 1st measurement (oldest)

4. To view the values of the other user, touch the respective user button.
5. After viewing all measurements, the measurement computer will automatically switch to sleep mode. If you would like to leave memory mode before this time, touch the user 1 or user 2 touch button for three seconds.

Erasing measurements

You can completely erase the measurements of a user. Proceed as follows to do so:

1. Activate the user buttons on the measurement computer with the ON/OFF switch 9 (see **Fig. A**).
2. Switch to memory mode by touching the user 1 button 10 or user 2 button 8 for three seconds until the WHO-LED lights up with the average for all measurements.
3. Touch the user button of the user whose values you would like to erase.

4. Touch both the user 1 button 10 and the user 2 button 8 at the same time for 3 seconds. "CL --" and then "CL 00" will appear on the display 6 (see **fig. A**).

   All measurements of the respective user are erased.

5. You can now switch the measurement computer to sleep mode by touching the user 1 or user 2 touch button for three seconds.

Evaluating the measurements

Cardiac arrhythmia

NOTICE!

If the arrhythmia indicator 22 appears frequently after a measurement, you should advise your physician and get an in-depth examination. Follow your doctor's orders. Do not endanger yourself through self-diagnosis or taking your own therapeutic measures.

Arrhythmia detection of the blood pressure monitor may be able to detect potential cardiac arrhythmia. If the device detects an irregular pulse, this will be indicated with the arrhythmia indicator 22 after the measurement (see **fig. B**). Arrhythmia detection may provide an indication of an illness, but does not offer a sure diagnosis.

Arrhythmia is an illness involving a malfunction of the

bioelectric control mechanism for the heart beat that results in an abnormal cardiac rhythm. Compared to a normal cardiac rhythm, symptoms include missed or premature heart beats or an overall slower or accelerated pulse. The possible causes include, among other things:

- physical disposition,
- advanced age,
- cardiac illness,
- excessive consumption of alcohol or nicotine,
- stress,
- lack of sleep.

If the arrhythmia indicator 22 appears, repeat the measurement.

At the same time, make sure you comply with the basic rules for correct measurement of blood pressure (see chapter "Performing a measurement").

WHO classifications

The World Health Organisation (WHO) has defined six categories for the classification of blood pressure levels. This classification is provided in the following table.

Range of blood pressure levels	Systoles (in mmHG)	Diastoles (in mmHG)	Measure
Optimal	< 120	< 80	Check your blood pressure on your own regularly.
Normal	120 – 129	80 – 84	Check your blood pressure on your own regularly.
Elevated normal	130 – 139	85 – 89	Have your blood pressure checked regularly by a physician.
Level 1: Slight hypertension	140 – 159	90 – 99	Have your blood pressure checked regularly by a physician.
Level 2: Moderate hypertension	160 – 179	100 – 109	Have your physician examine you promptly.
Level 3: Severe hypertension	≥ 180	≥ 110	Have your physician examine you promptly.

The LEDs on the blood pressure monitor and the arrow icons on the display indicate the range for the measured blood pressure.

If the values for systoles and diastoles are within two different WHO ranges, the device will display the higher of the two ranges.

Example:

The systolic pressure is within the “Normal” range.
The diastolic pressure is within the “Elevated normal” range.
The measurement computer shows “Elevated normal”.
However, the WHO only offers a general guideline. Variances in the individual blood pressure of different persons are not unusual. Ask your physician for blood pressure levels that are normal for you and for levels that are considered dangerous.

Cleaning and maintenance

NOTICE!
Risk of damage!

If you do not clean the blood pressure monitor properly, you can damage the blood pressure monitor.

- Do not use any cleaners or solvents.
- Do not use any brushes with metal or nylon bristles, sharp or metallic cleaning utensils such as knives, hard scrapers or similar.

- Clean the measurement computer, the cuff hose and the cuff carefully with a damp cloth.
- After cleaning, use a soft cloth to clean the blood pressure monitor.

Changing the batteries

NOTICE!

After you have changed the batteries, you must reconfigure the data format, date and time. The saved measurements will, however, remain intact.

If the display is blank after you switch on the measurement computer or the battery indicator or error code "E6" appears, the batteries are no longer supplying enough energy.

To change the batteries, follow the steps described in the chapter "Inserting batteries".

Storage

If you do not use the blood pressure monitor for a prolonged period of time, please observe the following notes:

- Take the batteries out of the battery compartment.
- Store the blood pressure monitor in the enclosed bag to protect it from dust.
- Do not store the blood pressure monitor near heat sources.
- Observe the information concerning the storage environment (see chapter "Technical data").
- Do not place any heavy objects on the measurement computer, the cuff or the cuff hose.

Troubleshooting

If a malfunction occurs, first check the points below before you send the blood pressure monitor in to be repaired.

If error codes are shown on the display, proceed as follows:

1. Switch the measurement computer to sleep mode by pushing the SET button, the user 1 button 10 or the user 2 button 8 (see **fig. A**).
2. Observe the solutions provided in the following table.

Problem	Causes and solutions
The error code "E1" and the pulse indicator appear on the display.	The pulse is not being measured correctly. – Fit the cuff correctly on your arm. – Repeat the measurement.
The error code "E2" appears on the display.	You spoke or moved during the measurement. – Repeat the measurement without speaking or moving.

Problem	Causes and solutions
The error code “E3” appears on the display.	The cuff is not on your upper arm. – Fit the cuff correctly on your arm. – Repeat the measurement.
The error code “E4” appears on the display.	A measurement error has occurred. – Repeat the measurement.
The error code “E5” appears on the display.	A problem has occurred when inflating the cuff (inflation pressure > 300 mmHg). – Make sure that the cuff hose is not kinked or clamped. – Fit the cuff correctly on your arm. – Repeat the measurement.
The display is blank. or The battery indicator and the error code “E6” appear on the display.	The batteries were not inserted correctly. – Remove the batteries and put them back in with the correct polarity.
	Batteries are empty. – Replace the empty batteries with new ones.

Problem	Causes and solutions
The error code “E7” and the Bluetooth® indicator appear on the display.	Bluetooth® transfer is not possible. Once you have prepared everything for automatic transmission, repeat the measurement or transfer the measurements manually.
	Bluetooth® transfer is not possible. The Bluetooth® function of your smartphone or tablet is switched off. – Switch the Bluetooth® function of your smartphone or tablet on.
	The Bluetooth® transmitter of the blood pressure monitor is not working properly. – Take the batteries out of the battery compartment. – Put the batteries back in. – Switch the Bluetooth® function of your smartphone or tablet off and back on.

Problem	Causes and solutions
The error code “E7” and the Bluetooth® indicator appear on the display.	Your smartphone or tablet is not working properly. – Switch off your smartphone or tablet off completely and then back on.
	The app was not successfully installed on your smartphone or tablet. – Reinstall the app and log in with your user data.
	Your smartphone or tablet does not support Bluetooth® Smart. – Exchange your smartphone or tablet with a model that supports Bluetooth® Smart.

Problem	Causes and solutions
Not all measurements saved are transmitted.	You performed more than 60 measurements without connecting to the app. The blood pressure monitor can save a total of 60 measurements per user. Afterwards, the first measurement will be overwritten by the last one. – Connect the blood pressure monitor with the app on a regular basis to prevent losing measurements.

Use the FAQs (frequently asked questions) on the following website as an additional help for your blood pressure monitor: www.cranesportsconnect.com/faq.

If the measures described above have not resolved the problem, please contact our service team. Use the information provided below and also consider the chapter “Warranty”.

Technical data

Type:	MD 4000
Model:	AE5-CDBP-1
Article number:	92126
EAN:	20021023
Power supply:	Batteries, 4 x 1.5 V DC, type LR03/AAA
Classification	Type BF application part
Type of operation	Continuous operation
Protection class	Internal power supply

IP code	IPX 0
Anaesthesia safety	The device is not approved in accordance with category AP or APG.
Measurement method	Oscillometric, non-invasive measurement of blood pressure on the upper arm
Measurement accuracy	Maximum permissible standard deviation according to clinical examination: systolic 8 mmHg/ diastolic 8 mmHg
Measurement range	
Cuff pressure:	30 – 250 mmHg
Systolic pressure:	50 – 250 mmHg
Diastolic pressure:	30 – 200 mmHg
Pulse:	40 – 180 bpm
Display accuracy:	Pressure: +/- 3 mmHg
	Pulse: +/- 5 % of the measurement
Measurement resolution:	Pressure: 1 mmHg
	Pulse: 1 bpm
Cuff:	Circumference of upper arm 22 – 35 cm
Bluetooth® version:	4.0 (Bluetooth® Smart), ~ 2.4 GHz

Operating environment:

Temperature:	+ 5 °C to + 40 °C
Humidity:	15 % to 93 %

Storage environment:

Temperature:	- 25 °C to + 70 °C
Humidity:	up to 93 %

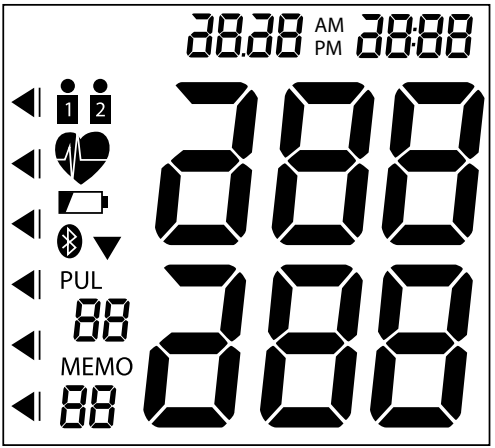
We reserve the right to make changes to technical data without prior notice for updating reasons.
This device complies with the European standard EN 60601-1-2 and is subject to special precautionary measures with respect to electromagnetic compatibility. Portable or mobile high-frequency communication devices could interfere with this device. You can request more detailed information at the specified service address.
This blood pressure monitor corresponds to the following guidelines, laws and standards:

- EU Directive for Medical Products 93/42/EEC,
- Medical Product Law (MPG) of the Federal Republic of Germany,
- Standard EN1060-1 (Non-Invasive Blood Pressure Monitoring Devices Part 1: General requirements),
- Standard EN1060-3 (Non-invasive Blood Pressure Monitoring Devices Part 3: Supplementary requirements for electromagnetic blood pressure monitoring systems),
- Standard IEC80601-2-30 (Medical electrical devices part 2-30: Special stipulations for safety including the

essential features of automated non-invasive blood pressure monitoring devices).

Full display reference

The following figure shows the display with all indicator segments. You can use this figure to determine whether the display is properly rendering the measurements.



Manufacturer information

Manufacturer:
Grandway Technology (Shenzhen) Limited
Block 7, Zhu Keng Industrial Zone,
Ping Shan District, 518118 Shenzhen,
PEOPLE'S REPUBLIC OF CHINA

EC REP

Manufacturer's representative in the EU:
Shanghai International Trading
Corp. GmbH (Hamburg)
Eiffestrasse 80
20537 Hamburg
Germany

Declaration of conformity

CE 0123 R&TTE 1999/5/CE directive, RoHS 2011/65/EU directive, 93/42/EEC medical products directive:

Short text of the declaration of conformity: Krippl-Watches hereby declares that the Bluetooth® blood pressure monitor (model no. AE5-CDBP-1) complies with the fundamental requirements and other applicable provisions

of the R&TTE 1999/5/EC, RoHS 2011/65/EU and 93/42/EEC medical products directive.

You can access the complete text for the declaration of conformity on our website:

http://www.produktservice.info

For this, enter the following EAN (European Article Number): 20021023.

Disposal

Disposing of the packaging

Dispose of the packaging separated into single type materials. Dispose of cardboard and carton as waste paper and foils via the recyclable material collection service.

Disposing of old devices

(Applicable in the European Union and other European states with systems for the separate collection of reusable waste materials)

Old devices do not belong in the household waste!

If the blood pressure monitor can no longer be used, every user is required by law **to dispose of old devices separately from their household waste**, e.g. at a collection point in his community/ borough. This ensures that old devices are recycled in a professional manner and also rules out negative consequences for the environment. For this reason, electrical equipment is marked with the symbol shown here.

Batteries and rechargeable batteries may not be disposed of with household waste!

As the end user you are required by law to bring all batteries and storage batteries, regardless whether they contain harmful substances* or not, to a collection point run by the communal authority or borough or to a retailer, so that they can be disposed of in an environmentally friendly manner. Turn in the batteries and rechargeable batteries at your collection point in a discharged state only!

* labelled with: Cd = cadmium, Hg = mercury, Pb = lead

Electromagnetic compatibility

Electromagnetic emissions

Guidance and manufacturer's declaration – electromagnetic emissions for all EQUIPMENT and SYSTEMS

The Sphygmomanometer (MD4000) is intended for use in the electromagnetic environment specified below. The customer of the user of the Sphygmomanometer (MD4000) should assure that it is used in such and environment.

Emission test	Compliance	Electromagnetic environment – guidance
RF emissions CISPR 11	Group 1	The Sphygmomanometer (MD4000) uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emission CISPR 11	Class B	The Sphygmomanometer (MD4000) 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.

Electromagnetic immunity

Guidance and manufacturer's declaration – electromagnetic immunity – for all EQUIPMENT and SYSTEMS

The Sphygmomanometer (MD4000) is intended for use in the electromagnetic environment specified below. The customer of the user of the Sphygmomanometer (MD4000) should assure that it is used in such and environment.

Immunity test	IEC 60601 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 floor are covered with synthetic material, the relative humidity should be at least 30%.
Power frequency (50Hz) magnetic field IEC 61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

Guidance and manufacturer's declaration – electromagnetic immunity for EQUIPMENT and SYSTEMS that are not LIFE-SUPPORTING

The Sphygmomanometer (MD4000) is intended for use in the electromagnetic environment specified below. The customer or the user of Sphygmomanometer (MD4000) should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
			Portable and mobile RF communications equipment should be used no closer to any part of the Sphygmomanometer (MD4000), including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance.
Conducted RF IEC 61000-4-6	3 V_{rms} 150 kHz to 80 MHz	3 V_{rms}	$d = \left[\frac{3.5}{V_1}\right]\sqrt{P}$
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	$d = \left[\frac{3.5}{E_1}\right]\sqrt{P}$ 80 MHz to 800 MHz $d = \left[\frac{7}{E_1}\right]\sqrt{P}$ 800 MHz to 2.5 GHz

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
			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 metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey[a] should be less than the compliance level in each frequency range[b]. Interference may occur in the vicinity of equipment marked with the following symbol: 

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

[a] 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 Sphygmomanometer (MD4000) is used exceeds the applicable RF compliance level above, the Sphygmomanometer (MD4000) should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Sphygmomanometer (MD4000).

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

Recommended separation distances

Recommended separation distances between portable and mobile RF communications equipment and the EQUIPMENT or SYSTEM – for EQUIPMENT or SYSTEM that are not LIFE-SUPPORTING

Recommended separation distances between portable and mobile RF communications equipment and the Sphygmomanometer (MD4000)

The Sphygmomanometer (MD4000) is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Sphygmomanometer (MD4000) can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Sphygmomanometer (MD4000) 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)	
	80 MHz to 800 MHz $d = \left[\frac{3.5}{E_1}\right]\sqrt{P}$	800 MHz to 2.5 GHz $d = \left[\frac{7}{E_1}\right]\sqrt{P}$
0,01	0.1167	0.2334
0,1	0.3689	0.7378
1	1.1667	2.3334
10	3.6893	7.3786
100	11.6667	23.3334

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated 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.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

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WARRANTY CARD BLUETOOTH® BLOOD PRESSURE MONITOR

Your details:

Name _____

Address _____

_____

_____

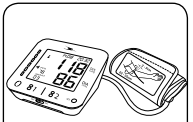
☎ _____ E-mail _____

Date of purchase * _____

* We recommend you keep the receipt with this warranty card.

Location of purchase _____

Description of malfunction:



Return your completed warranty card together with the faulty product to:

Krippl-Watches

Freepostcode: RLTU-ZYZE-SKLG

Picadilly 180

W1J 9HF London

UNITED KINGDOM

AFTER SALES SUPPORT

☎ **00800/52323000**

service@produktservice.info

Model: AE5-CDBP-1 Product Code: 92126 04/2015

Please note: The helpline number is a free phone number however please allow time (up to 10 seconds) for the international connection to take place.

3 YEARS WARRANTY

Warranty conditions

Dear Customer,

The ALDI warranty offers you extensive benefits compared to the statutory obligation arising from a warranty:

Warranty period:	**3 years** from date of purchase.
	6 months for wear parts and consumables under normal and proper conditions of use (e.g. rechargeable batteries).
Costs:	Free repair/exchange or refund. No transport costs.
ADVICE:	Please contact our service hotline by phone, e-mail or fax before sending in the device. This allows us to provide support in the event of possible operator errors.

In order to make a claim under the warranty, please send us:

- together with the faulty item the original receipt and the warranty card properly completed.
- the faulty product with all components included in the packaging.

The warranty does not cover damage caused by:

- **Accident** or **unanticipated events** (e.g. lightning, water, fire).
- **Improper use** or **transport**.
- **Disregard of the safety** and **maintenance instructions**.
- Other **improper treatment** or **modification**.

After the expiry of the warranty period, you still have the possibility to have your product repaired at your own expense. If the repair or the estimate of costs is not free of charge you will be informed accordingly in advance.

This warranty does not limit the statutory obligation of the seller arising from a warranty. The period of warranty can only be extended in accordance with a legal standard. In countries where a (compulsory) warranty and/or spare part storage and/or a system for compensation are/is required by law, the statutory minimum conditions apply. In the event that a product is received for repair, neither the service company nor the seller will assume any liability for data or settings possibly stored on the product by the customer.

Spend a little Live a lot.

Great care has gone into the manufacture of this product and it should therefore provide you with years of good service when used properly. In the event of product failure within its intended use over the course of the first 3 years after date of purchase, we will remedy the problem as quickly as possible once it has been brought to our attention. In the unlikely event of such an occurrence, or if you require any information about the product, please contact us via our helpline support services, details of which are to be found both in this manual and on the product itself.

If you are not entirely satisfied with this product please return it to the store where it was purchased and we will be pleased to replace or refund it. This does not affect your statutory rights.

PRODUCED IN CHINA FOR:
ALDI STORES LTD. PO BOX 26, ATHERSTONE
WARWICKSHIRE, CV9 25H

ALDI STORES (IRELAND) LTD.
PO BOX 726, NAAS, CO. KILDARE.
visit us at www.aldi.co.uk

GB IRE

AFTER SALES SUPPORT

☎ **00800/52323000** **service@produktservice.info**

Model: **AE5-CDBP-1** Product code: **92126** 04/2015

3 YEARS WARRANTY