

**scala<sup>®</sup>**  
**Blood Pressure Monitor**  
**Upper Arm Type**  
**SC 6750A**



CE 0197

**GB** Instructions for use

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**Precautions of use**

**WARNINGS:**

1. Avoid prolonged over-inflation of the bladder to prevent harmful physical injury.
2. If the cuff causes any discomfort during measurement, press the POWER button to turn off the device immediately.
3. Pull off the Velco strap to detach the cuff if the cuff pressure exceeds 300mmHg without an automatic rapid exhaust.
4. Keep blood pressure monitor (including cuff and batteries) away from children to avoid misusing. Children should not use the device without the supervision of an adult.
5. This manual and the product are not substitutes for visiting the doctor. Neither the information contained herein nor this product may be used to diagnose or treat health problems, or to prescribe drugs. If you have or suspect that you have a medical problem, please seek immediate advice from your doctor.
6. Do not conduct any measurements if the temperature is low (below +5°C) or high (over 40°C), or if the relative humidity is beyond the range of 15% to 90%, as this can lead to inaccurate readings.
7. Wait 30 to 45 minutes, before taking a measurement if you have just had a caffeinated drink or a cigarette.

8. Relax for at least 5 to 10 minutes before taking a measurement.
9. Please wait 3 to 5 minutes between measurements, so that your blood vessels can return to the state they were in prior to measurement. You may have to adapt the waiting time to your personal physiology.
10. It is recommended that you use the same arm for each measurement (preferably the left) and take the measurement at the same time every day.
11. Sit down comfortably with your elbows placed on the table and both feet on the ground. Please do not interlock your legs during the measurement.
12. Take the measurement at room temperature in a quiet and stressfree environment.
13. Please keep in mind that blood pressure naturally varies depending on the time of day and is affected by many different factors. Blood pressure is usually highest at work and reaches its lowest level during sleep phase.
14. Blood pressure measurements should be assessed by a doctor or trained healthcare professional who is familiar with your medical history. If you use the unit and regularly record the results, please keep your doctor informed with regard to the ongoing changes in your blood pressure.
15. If you suffer from a cardiovascular disease (such as atherosclerosis), diabetes, a liver or kidney disease, severe hypertension or peripheral circulatory disorders, etc., please consult your doctor before using this unit.
16. The performance of this device can be influenced as severe arrhythmias such as atrial or ventricular premature beats or atrial fibrillation are presented during measurement.
17. The blood pressure measurements conducted with this unit are equivalent to measurements obtained by a trained observer in accordance with the values achieved using the cuff/ stethoscope auscultation method and are within the specified EN 1060-4 standard limits.
18. Do not use this appliance on infants, children or persons who cannot express their own intentions.
19. Measuring too frequently may result in circulatory disorders, which can cause unpleasant sensations such as localized bleeding under the skin or temporary numbness in your arm. These symptoms do not usually last long. However, if you have not recovered after some time, please consult your doctor.
20. To avoid accidental strangulation, keep the product away from children and do not place the hose around the neck.

21. Please take into consideration the electromagnetic compatibility of the unit (e.g. disruptions to the power supply, radio frequency interference, etc.). Please only use the unit indoors. To avoid inaccurate results due to electromagnetic interference between electrical and electronic equipment, please do not use the unit near mobile phones or microwave ovens. In case of devices whose maximum power exceeds 2 W, the minimum distance from your blood pressure monitor should be 3,3 meters.
22. The unit is not waterproof. Never immerse this instrument in any liquids.
23. Do not use the instrument if you think it is damaged or if you notice anything unusual.
24. Any known restrictions on use or contra-indication(s): Consult your doctor prior to using in pregnancy or if diagnosed with arrhythmia or arteriosclerosis.
25. Do not modify this device or cuff without authorization of the manufacturer.
21. If you do not use the device for a longer time, remove the batteries from it.

*Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.*

#### **CAUTIONS:**

1. Read and follow the entire instruction manual before operating blood pressure monitor.
2. Do not press the POWER button if the cuff has not been properly wrapped.
3. The malfunctions of display can be determined by pressing and holding the POWER button under power-off mode.
4. The accuracy of the blood pressure monitor is recommended to be verified every two years. Contact authorized agent or laboratory for inspection/calibration service.

#### **Product description and intended use**

The blood pressure monitor is an electronic device intended to make human blood pressure and pulse rate of adult population utilizing non-invasive oscillometric method in household environment. The BPM for measuring human blood pressure and pulse rate with the following characteristics:

- To be used (installed) by the user, with the exception of handicapped persons.
- Handicapped persons need assistance by another person to use the device.

**About blood pressure**

• **What is blood pressure?**

The blood pressure is generated by the force of the blood flow against the arterial walls after the heart has pumped the blood in the circulatory system.

• **What are the systolic and the diastolic pressure?**

Systolic pressure represents the highest pressure during heart contraction and diastolic pressure is the lowest pressure while heart is resting.

• **What are the systolic and the diastolic pressure?**

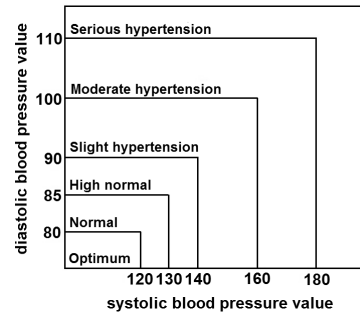
Systolic pressure represents the highest pressure during heart contraction and diastolic pressure is the lowest pressure while heart is resting.

• **What about low blood pressure?**

In general, lower blood pressure reading is better unless it causes some uncomfortable symptoms such as fainting and/or light headedness.

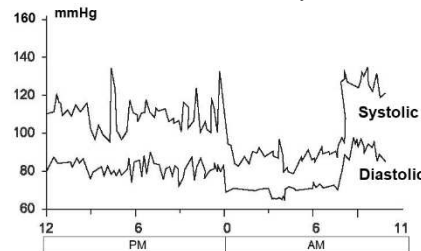
• **WHO-ISH classification**

Your blood pressure measurement can be compared with classification categories defined by 1999 World Health Organization – Inter-national Society of Hypertension Guidelines for Management of Hypertension for preliminary evaluation. Please consult your physician for interpretation of blood pressure measurement and follow their directions.



• **Fluctuation and variation of blood pressure**

Human blood pressure has a fluctuated characteristic and will vary 24 hours a day. Blood pressure measurement can be affected by the measurement position, posture, physiologic conditions as well as factors such as eating, bathing, exercising, smoking, drinking alcohol, stress mental tension, breathing, movement, temperature or humidity change, etc.



**The device**

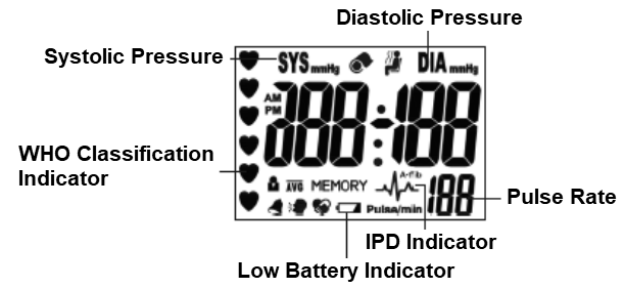


- 1 - MEMORY button
- 2 - User button
- 3 - POWER button
- 4 - Cuff
















**The delivery includes:**

The blood pressure monitor, a cuff (22 – 32 cm), batteries, a storage bag or box and the instruction manual.

**The LC Display**



### Explanation of symbols

	systolic pressure		POWER button
	diasystolic pressure	<i>PP</i>	pulse pressure
	irregular pulse detection		disposal notes
	follow operation instructions		type BF applied part
	manufacturer	<i>HI</i>	cuff pressure > 300mmHg
	authorized representative in the EU	<i>P</i>	pumping
	Keep dry	<i>P Er</i>	pumping failure
	CE Nr. of notified body	<i>UU Er</i>	movement during measurement
	production period month/year	<i>LL Er</i>	insufficient pulse detected
	serial number	<i>rrEr</i>	readings are not reasonable
	authorisation and restriction of chemicals (REACH) is an EU regulation		restriction of hazardous substances

### Battery Installation

1. Remove the battery compartment cover and insert three alkaline batteries (LR03) in the battery compartment. Ensure correct polarity of the batteries. The polarity is marked "+" and "-" in the compartment. Replace the battery compartment cover.
2. When you change the batteries, use only alkaline batteries of the same type.
3. When the battery symbol is displayed, replace all batteries as a set.
4. The integrated timer and the memory data may be deleted when the batteries are changed. The timer must be set again.

### Setting the clock


1. To have correct date and time for memory storage, the built-in clock needs to be set prior to start first measurement.
2. Under power-off mode, press and hold the MEMORY button until the display shows a blinking year and press the POWER button for adjustment. After current year is selected, set the year by pressing the MEMORY button and switch to next adjustment.
3. Repeat previous steps to adjust and set current month, day, hour and minute one by one while they are blinking.
4. Following the date and time setting, the clock display function can be set by pressing POWER button for adjustment ON/OFF in "CL" shows status and confirmed by MEMORY button.
5. Following clock function enabled, the alarm function can be set by pressing POWER button for adjustment ON/OFF in "AL1" show status. Confirmed ON by MEMORY button and adjusted Hour by POWER button and then same procedure set for minute.
6. Total can be set 4 alarm times from AL1 - AL4. As any alarm is switched on, a bell as indicator will appear on display.
7. As last, press MEMORY button again to finish setting.

### Attaching the cuff and measuring posture

1. Make sure the circumference of your upper arm is within applicable cuff range.
2. Plug the tube connector into the cuff socket securely.
3. Put bare-skinned left arm through the cuff with tube located at middle of your inner arm and aligned to your middle finger. Measuring with thin clothing is allowed.
4. Fasten the cuff with its bottom edge should be 2-3 cm above your elbow and make sure it is not wrapped too tight.
5. Sit upright in a chair with your feet flat on the floor and relax in a natural position.

6. Hold still and do not talk during measurement.
7. If it is not possible to take measurement with left arm, use right arm instead.

#### **Taking a Measurement**

1. Press the USER button to choose user number for memory storage. User selection can also be made by pressing the USER button while readings are displayed after measurement is completed.
2. Press the POWER button to start automatic measurement. The measurement can be interrupted anytime by pressing the POWER button again.
3. When the measurement is completed, the systolic pressure, diastolic pressure and pulse rate will be displayed.
4. The display will also indicate which category your blood pressure reading belongs to according to classification defined in 1999 WHO-ISH Guidelines for Management of Hypertension.
5. IPD (Irregular Pulse Detection): If irregular pulse is detected, the symbol  is displayed. Cardiac arrhythmia is indicated when the period between two heart beats is 5/3 the time of the average heart beat and this abnormality occurs three times during a measurement. Consult a doctor when cardiac arrhythmia occurs frequently.
6. The device also provides the PP (Pulse Pressure) function that is equal to systolic minus diastolic. If systolic is higher than diastolic 60 mmHg, LCD will be showed "PP" and differentiation value. If PP indicator is displayed with measurement readings frequently, please consult a qualified physician for further directions.
7. When the device is switched off, the measuring values are stored in the selected memory. The device is switched off automatically after 150 seconds.

#### **Memory Function**

1. With the USER button, select the memory whose values you want to view.
2. Display the measuring values in the memory with the MEMORY button.

- **Deleting a blood pressure value from the memory**

With the MEMORY button, go to the blood pressure value which you want to delete. Instantly press and hold (at least 4 seconds!!!) the POWER button and the display will show: dEL (delete) and the number of the memory location. To delete the value, press the POWER button instantly.

- **Deleting all blood pressure values in the memory**

With the MEMORY button, go to any blood pressure value. Instantly press and hold (at least 4 seconds!!!) the POWER button and the display will show: dEL (delete) and the number of the memory location. Instantly press the MEMORY button and dEL (delete) and ALL (for all memory locations) will be displayed.

Instantly press the POWER button and all values are deleted. Time and date are not deleted.

#### **Care and Maintenance**

1. Do not drop the device. It is not shock proof.
2. Do not disassemble or modify the device and cuff.
3. Do not twist the cuff or fully bend the tube.
4. Do not store the device and cuff in environments with direct sunlight, high temperature or moisture and severe dust.
5. Do not use thinner, benzene and other harsh cleaners to clean the device (exclude alcohol).
6. Do not wash or immerse the cuff.
7. Remove all batteries if the device is not likely to be used for a long period of time.
8. For a long-term storage, be sure to place the device at a proper environment.

#### **Clean and Disinfection**

##### **Cleaning process**

1. Use a cloth moistened with water or neutral detergent to clean the device with a solution of 5-10% mild detergent.
2. The cleaning operation with cold water to avoid the chemical residues remaining on the device.
3. If necessary repeat step 1 to step 2 in order to make sure the device was clean.
4. A final wipe down by a clean wiper is necessary to avoid water stains.


### Disinfection process

1. To disinfect the device when completed the cleaning process.
2. Use 70 to 75% alcohol; Put alcohol into a spray bottle and spray both sides of the cuff with it; contact time  $\geq 10$  min for disinfection.
3. The disinfectant free rinse without residues.

### Drying process

1. After cleaning and disinfection process
2. Put the device and cuff to air-dry in the room temperature

### Trouble shooting

Message	Error description
LL Er	No sufficient pulses are detected for measurement. Refasten the cuff and measure again.
UU Er	Excessive body movement is detected during measurement. Refasten the cuff and measure again.
PEr	Pumping failure. Refasten the cuff. The cuff with its bottom edge should be approx. 2-3 cm above your elbow and make sure it is not wrapped too tight.
rrEr	Detected SYS and DIA readings are not reasonable may due to too much interference around. Do not keep the unit close to mobile phones or microwave ovens. Refasten the cuff and measure again..
HI	The pumping pressure is over 300 mmHg. The cuff might be blocked due to improper wrapping. Refasten the cuff and measure again.
 or no display	Replace all batteries.

### Regular recalibration

No checks of the measuring accuracy of the SC 6750A are normally required. Devices used in medical practice in Germany must be checked after 2 years according to applicable legislation.

### Warranty

We grant a warranty of two years for the blood pressure monitor. The cash voucher is your warranty certificate. The product will be repaired free during the warranty period. The warranty does not cover damage due to improper handling, accident, non-compliance with the instructions for use or unauthorized modifications of the product.

### Disposal note



Defective blood pressure monitors or monitors at the end of their life may contain material that might be a hazard to the environment. Dispose of the blood pressure monitor as prescribed, i.e., at a collection point for electrical scrap.



The disposal of batteries is regulated. Spent batteries are collected at collection points provided by battery dealers and the communities.

### Technical specifications

Measuring range:	Pressure: 20 ~ 300 mmHg Heart rate: 40 ~ 200 bpm
Accuracy:	Pressure: 3 mmHg Heart rate: $\pm 5\%$ of reading
Measuring method:	Oscillometric measurement
Automatic off:	150 seconds after the last press of a button
Memory:	2 x 50 sets
Dimensions:	152 x 97 x 27 mm (without cuff)
Weight:	approx. 224 g (including batteries)
Cuff range:	22 - 32 cm
Operating condition:	5 ~ 40°C, 15 ~ 90%RH
Storage condition:	-20 ~ 55 C (-4 ~ 131F), <93% RH
Voltage supply:	3 x LR03
Battery life:	approx. 250 measurements (for new alkali batteries)
IP classification:	IP22

Specifications may change as technical improvements take place

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