

## Introduction

The OMRON MX3 Plus measures your blood pressure and pulse simply and quickly from the arm, without the use of an inflation bulb or stethoscope. The measurement values are stored in the memory of the OMRON MX3 Plus.

The OMRON MX3 Plus includes a standard cuff for arm circumferences ranging from 22-32 cm. Optional large cuffs (32-42 cm) can be applied.

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## 1 How to obtain meaningful blood pressure readings

### General

- The OMRON MX3 Plus is not suitable for measuring the frequency of cardiac pacemakers.
- Consult your doctor during pregnancy, arrhythmia and arteriosclerosis as this can influence the measurement.
- Avoid eating, drinking (alcohol), smoking, sport and taking a bath before measurement.
- Be calm and relaxed before and during measurement.
- You should never change the dose of medicines prescribed by your doctor.

- Store the OMRON MX3 Plus in a dry, closed place with a temperature between -20°C and 60°C.
- Remove the batteries if you not intend to use the OMRON MX3 Plus for 3 months or more.

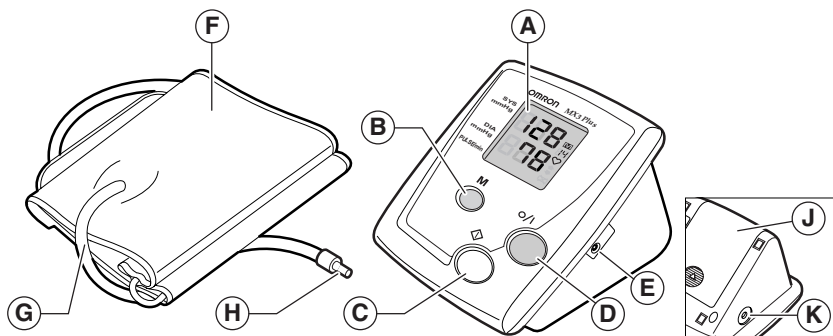
### Tips for use

- Check your blood pressure at least twice a day (before breakfast, after work).
- Do not measure your blood pressure while you are in a vehicle.
- Always measure on the same arm.
- Wrap the cuff around your arm before start of measurement.

### Caution

- Operating temperature between 10°C and 40°C.
- Operating environment must be free from excessive vibrations, shocks, magnetic fields, electrical noise, etc.
- Stay out of sunlight during measuring.
- Keep portable phones 5 meters away during measurement.
- Do not wrap the cuff around any object other than your arm.
- Do not fold the cuff and the tube.
- Do not drop the OMRON MX3 Plus.

## 2 Overview



**A** Display

**B** Memory recall button

**C** Start button

**D** On/off button

**E** AC adapter jack

**F** Cuff

**G** Air tube

**H** Air plug

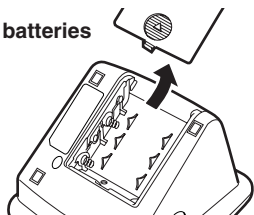
**J** Battery

compartment

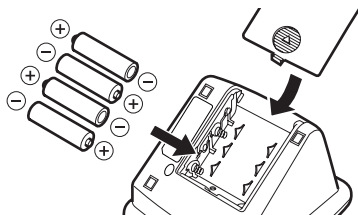
**K** Air jack

## 3 Preparation

### Insert batteries



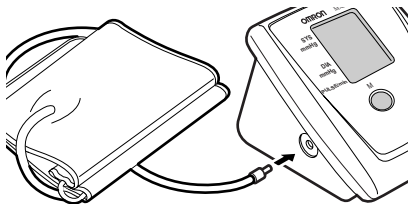
1 Slide off the battery cover.



2 Insert four batteries as indicated in the battery compartment and close compartment

**Caution!** Use four identical 1.5V alkaline batteries type AA LR6!

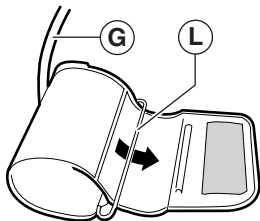
### Connect cuff



1 Insert air plug in air jacket.

G Air tube

L Ring

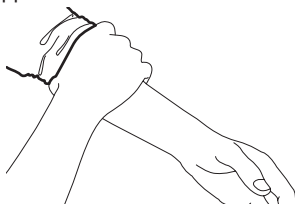


2 Pass the end of the cuff through the ring.

**Caution!** Keep the air tube on the outside!

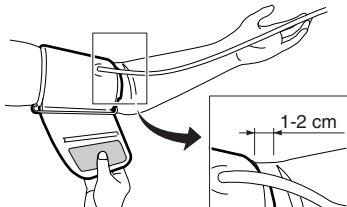
### Fit cuff

**Caution!** Do not inflate the cuff when not wrapped around the arm!



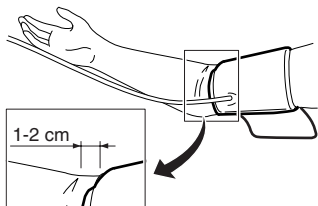
1 Bare your arm.

**Caution!** Push up your sleeve: avoid constricting the blood flow!

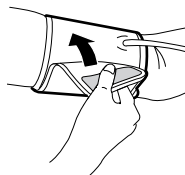


3 Put your arm through the loop.

**Note:** keep the tube even with your middle finger.



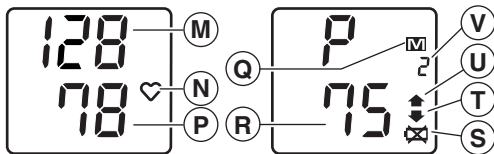
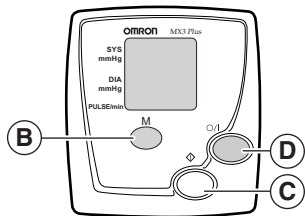
**Note:** for right arm use keep the tube parallel with your little finger!



**4** Hold the end of the cuff and wrap it around your arm.

**Caution!** Be sure the cuff fits closely; do not pinch your arm!

## 4 Operation



### Control functions

- B** Memory recall button
- C** Start button
- D** On/off button

### Measurement

- M** Systolic blood pressure in mmHg.
- N** Heart symbol: flash - measurement takes place, light up - finish measurement.
- P** Diastolic blood pressure in mmHg.
- Q** Memory display: values in memory.

**R** Pulse: heartbeats per minute.

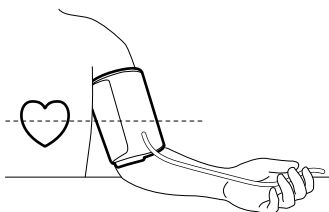
**S** Battery exhausted: batteries are weak/exhausted.

**T** Deflation: cuff deflates and measurement finishes.

**U** Inflation: cuff inflates and measurement starts.

**V** Memory position: 1 to 14.

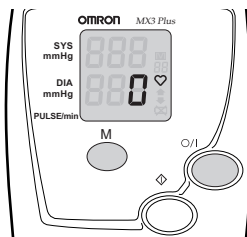
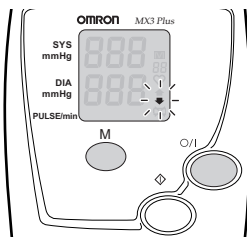
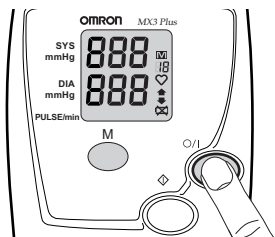
**Caution!** Allow an interval of at least three minutes between two successive measurements!



**1** Sit comfortably at a table with your feet flat on the floor and rest your arm on the table.

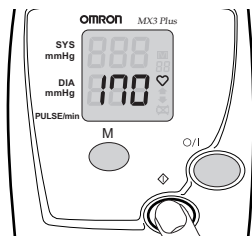
**2** Relax your arm and turn your palm upward.

**Caution!** Cuff at heart height during measurement!



**3** Press on/off button.

**Caution!** Wait for zero and the heart symbol to continue!

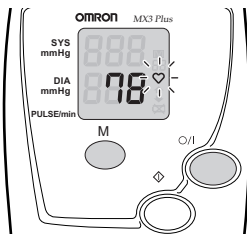
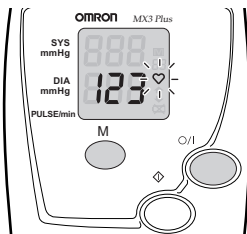
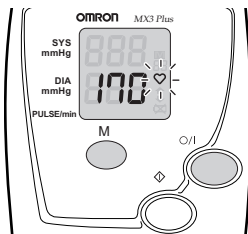


**4** Press start button

**Note:** the unit inflates the cuff to 170 mmHg. If required the unit automatically increases the pressure by 40 mmHg.

**Note:** press and hold the start button to set pressure higher than 170 mmHg.

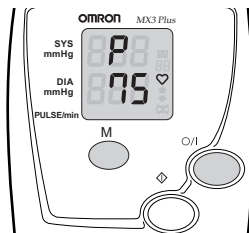
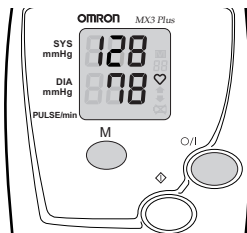
**Caution!** Do not inflate over 280 mmHg!



**Note:** the cuff deflates automatically.

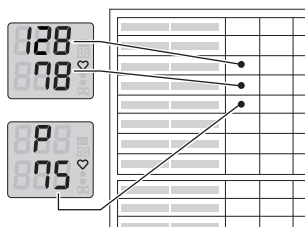
**Caution!** Sit still, do not move and do not speak!

## Read display

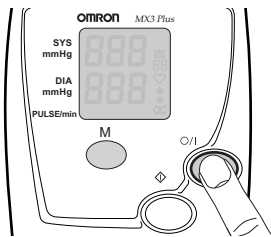


**1** Read the values of blood pressure and pulse from the display.

**Note:** display shows blood pressures and heartbeats alternately.



**2** Note values in your personal blood pressure pass.

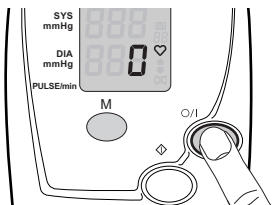


**3** Press on/off button to turn off power.

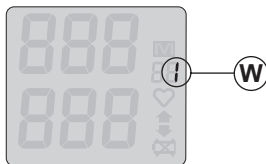
**Note:** power automatically shuts off in 5 minutes.

## 5 Memory

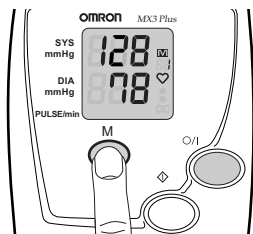
## Recall previous values



- 1 Press on/off button to turn on power.

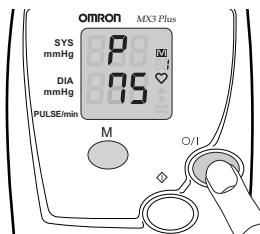


- W** Memory position of latest and previous values (1-14).



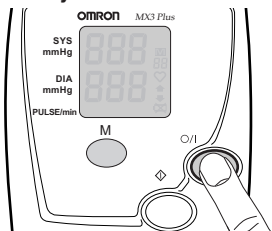
- 2 Press memory recall button for latest and previous values.

**Note:** display shows alternately blood pressures and heartbeats.

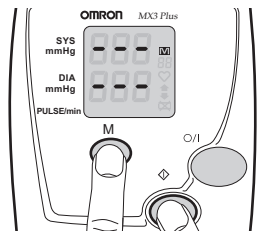


- 3 Press on/off button to turn off power.

## Erase memory







- 1 Press on/off button to turn on power.



- 2 Press the memory recall button for 2-3 seconds and then, whilst continuing to press the recall button, press the start button.

**Caution!** All stored values will be erased!

### 6 Error: causes and rectifications

Indication	Error	Cause	Rectification
	Correct reading not possible	Cuff pressure low	Wait for at least three minutes to repeat measurement. Inflate the cuff 40 mmHg higher than previous value. Follow instructions, repeat measurement.
		Movement	
		Very weak artery pulse	
		Cuff pressure too high	Wait for at least three minutes to repeat measurement. Inflate the cuff 30 mmHg lower than previous value. Follow instructions, repeat measurement.
 <p>Display empty</p>	Low voltage	Batteries weak/exhausted	Fit four new identical 1.5V alkaline batteries type AA LR6

### 7 Maintenance and spare parts

- Use a soft, slightly moistened cloth to clean the OMRON MX3 Plus.  
**Caution!** Do not use petrol, thinners or similar solvents!
- Use a soft, moistened cloth and soap to clean the cuff.  
**Caution!** Do not wash the cuff!  
**Caution!** Do not use petrol, thinners or similar solvents!
- Do not carry out repairs of any kind yourself. If a defect occurs consult your

OMRON retail outlet or distributor as mentioned on the packaging.

#### Calibration

- It is recommended to have the OMRON MX3 Plus inspected every two years to ensure correct function and accuracy. Consult your OMRON retail outlet or OMRON distributor as mentioned on the packaging.

#### Replace batteries

- Remove the battery out of the battery



compartment and insert four new identical 1.5V alkaline batteries type AA LR6 batteries.

### Spare parts

- Due to high company quality standards, OMRON considers the main unit as a non-serviceable part because the need for proper calibration after replacement

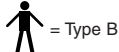
of high tech components.

**Attention!** Disposal of batteries and the OMRON MX3 Plus should be carried out in accordance with the national regulations for the disposal of electronic products.



## 8 Technical data

Product name	OMRON MX3 Plus
Model	HEM-742-E
Display	Digital LCD
Measuring range	Pressure: 0 - 299 mmHg / Pulse: 40 - 180 beats/minute
Accuracy	Pressure: $\pm 3$ mmHg Pulse: $\pm 5\%$ of display reading
Inflation	Automatic by electric pump
Deflation	Automatic pressure release valve
Rapid pressure release	Automatic exhaust valve
Pressure detection	Capacitive pressure sensor
Measuring method	Oscillometric
Power supply	4 x 1.5V alkaline batteries type (LR6) AA AC adapter (optional part)
Battery life	New batteries will last for approximately 300 measurements
Operating temperature/humidity	$+10^{\circ}\text{C}$ to $+40^{\circ}\text{C}$ / 30% to max. 85% relative humidity
Operating environment	Free from excessive vibrations, shocks, magnetic fields, electrical noise, etc.
Storage temperature/humidity	$-20^{\circ}\text{C}$ to $+60^{\circ}\text{C}$ / 10% to max. 95% relative humidity
Weight	Approximately 350 gr including cuff, excluding batteries
Outer dimensions	Approximately 118 mm (W) x 90 mm (H) x 130 mm (D)
Cuff dimensions	Approximately 145 mm (W) x 480 mm (L)
Arm circumference	22 cm to 32 cm
Accessories	Cuff, instruction manual, guarantee card, blood pressure pass
Optional parts	Large cuff for arm circumferences between 32 - 42 cm, AC adapter
Note	Subject to technical modification without prior notice



= Type B



Manufacturer

OMRON HEALTHCARE Co., Ltd.

EU-representative

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OMRON HEALTHCARE EUROPE B.V., Kruisweg 577, NL-2132 NA Hoofddorp

This device fulfils the provisions of the EC directive 93/42/EEC (Medical Device Directive). This blood pressure monitor is designed according to the European standard EN1060, Non-invasive sphygmomanometers Part 1: General Requirements and Part 3: Supplementary requirements for electromechanical blood pressure measuring systems.

## 9 General information about blood pressure

### Blood circulation

The blood circulation is responsible for supplying the body with oxygen. Blood pressure is the pressure exerted on the arteries.

The systolic blood pressure value (higher pressure or top value) represents the blood pressure produced by contraction of the heart muscle.

The diastolic blood pressure value (lower pressure or lower value) represents the blood pressure produced by relaxation of the heart muscle.

### Classification of blood pressure

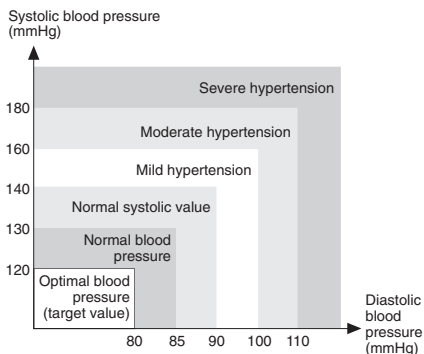
The World Health Organisation (WHO) and the International Society of Hypertension (ISH) developed the blood pressure classification. This classification is based on the blood pressure values measured while sitting on a chair in the outpatient department of a hospital.

### Health and blood pressure

The incidence of hypertension increases with age. In addition, a lack of exercise, excess body fat and high levels of cholesterol (LDL), which sticks to the inside in blood vessels, reduces elasticity of these vessels. Hypertension accelerates arterial sclerosis which can lead to very serious conditions such as stroke and myocardial infarction. For these reasons it is very important to know whether the blood pressure is within a healthy range. Blood pressure fluctuates from minute to minute, throughout the day. Therefore it is essential to take regular measurements to help you identify an average blood pressure.

### Symptoms of high blood pressure

High blood pressure can go unnoticed for a long time, since it does not cause noticeable symptoms. The following are all possible causes of abnormally high blood pressure:



According to the blood pressure classification by the WHO/ISH.

- Overweight
- High cholesterol level
- Smoking
- Excessive alcohol consumption
- Stress and emotional upset
- Excessive consumption of salt
- Lack of physical exercise
- Genetic/hereditary predisposition
- Underlying illnesses, such as kidney disorders or endocrine disturbance

### Blood pressure measurement

Measuring your blood pressure daily enables you to recognize high blood pressure at an early stage and obtain medical treatment.

The oscillometric method of measurement determines your blood pressure by measuring the pressure fluctuations caused by the pulse waves.

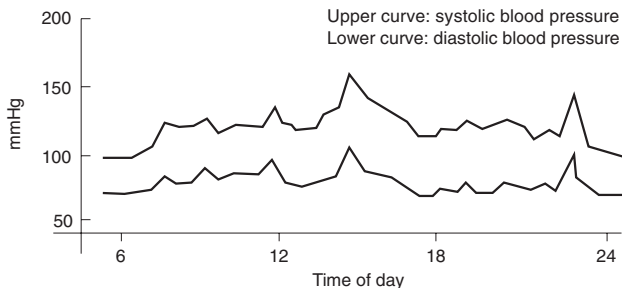
Since your blood pressure fluctuates within a day (see graphic next page), you should always measure it at the same time each day to ensure that the measurements are genuinely comparable. At the doctor's surgery, nervousness and

tension may cause your blood pressure to be higher than in familiar circumstances at home. This is known as "White Coat Hypertension".

### Treatment of high blood pressure

If your blood pressure reaches upper values of 140 - 160 mmHg and lower values of 90 - 95 mmHg in repeated measurements over several days, you should consult your doctor for detailed medical examination. You can assist the treatment prescribed by your doctor in the following ways:

- Loose weight and lower your cholesterol level by reducing the calories and fat in your diet. Cut down on animal fats and eat more fruit and vegetables.
- Reduce the consumption of alcohol.
- Reduce the intake of salt: the German League for Combating High Blood Pressure recommends six grams of salt per day (i.e. one teaspoon) on average.
- Stop smoking.
- Take regular exercise.
- Monitor your blood pressure.



Example: fluctuation within a day (male, 35 years old)



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