





## 2 ENGLISH

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## ANEROID SPHYGMOMANOMETERS

### INSTRUCTION MANUAL

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Class I Medical Device with measuring function  
Italian Legislative Decree no. 46 dated 24/02/97  
implementing Directive EEC 93/42 and subsequent amendments

### 1. Codes

DM330	Standard aneroid sphygmomanometer with stethoscope
DM333	Standard aneroid sphygmomanometer with gauge fixed on the cuff
DM335	Palm aneroid sphygmomanometer kit with 3 cuffs
DM342	One-hand aneroid sphygmomanometers two tubes
DM343	Big dial one-hand aneroid
DM344	Big dial one-hand aneroid with stethoscope
DM346	One-hand aneroid sphygmomanometers shockproof material
DM347	One-hand aneroid sphygmomanometers ambidextrous
DM348	Matched colour aneroid sphygmomanometers - Blue
DM350A	Matched colour aneroid sphygmomanometers - Hunter Green
DM350F	Matched colour aneroid sphygmomanometers - Red
DM350R	Matched colour aneroid sphygmomanometers with stethoscope - BLUE
DM353A	Matched colour aneroid sphygmomanometers with stethoscope - HUNTER GREEN
DM353F	Matched colour aneroid sphygmomanometers with stethoscope - RED
DM353R	Matched colour aneroid sphygmomanometers stand model
DM360	Aneroid sphygmomanometers desk/wall type
DM365	Aneroid sphygmomanometers stand model

### 2. Introduction

Thank you for having chosen a LOGIKO aneroid sphygmomanometer by Moretti. The LOGIKO sphygmomanometers are designed and built to meet all your demands for safe, practical, correct use. This manual provides some suggestions as to how to correctly use the device you have chosen and gives some valuable advice for your safety. Please read through the manual carefully before using the aneroid sphygmomanometer. Contact your retailer directly for questions or further assistance.

### 3. Intended use

The LOGIKO aneroid sphygmomanometers by Moretti are devices used to measure blood pressure. They are based on the auscultatory technique according to the Riva Rocci/Korotkoff method.

### 4. General description

The aneroid sphygmomanometers are available in two versions:  
- ANEROID SPHYGMO HAND TYPE  
- ANEROID SPHYGMO WITH SEPARATE BULB

### 5. Warnings for use

- Please read carefully this manual to ensure correct use of the device;
- Always follow the instructions given with regard to the product you have purchased;
- Always keep the device out of the reach of children;
- Never take pressure above 300 mmHg.

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All models are also available with a stethoscope integrated into the cuff for self-measurement. One hand sphygmomanometers can be easily used with just one hand owing to the PVC bulb which is assembled directly to the manometer. The model with the bulb apart is a classic aneroid instrument to measure blood pressure. This system makes the appliance compact but keeps its technical features and reliability unchanged.

### 4.1 What is blood pressure?

Blood pressure is the pressure exercised by the blood on the blood vessel walls. The maximum arterial pressure during the cardiac cycle is defined as SYSTOLIC pressure. The lowest arterial pressure is defined as DIASTOLIC pressure.

### 4.2 What is the normal blood pressure?

Blood pressure can vary greatly because it depends on a great many factors. Generally speaking, blood pressure is lower in the summer and higher in the winter. Blood pressure can vary with atmospheric pressure and is significantly affected, for example, by physical demands, emotions, stress, meals, medicines, alcohol, smoke, age, etc. It is a good idea to write down daily measurements and then consult a doctor in order to suitably define a normal blood pressure for your own body.

### N.B. Blood pressure varies with age, you will therefore need to consult a doctor to find out what blood pressure is normal for you. Under no circumstances should you alter the dosage of any drugs your doctor may have prescribed!

### 4.3 Operating method

The sphygmomanometers work according to the Riva Rocci/Korotkoff auscultating method. The PVC bulb enables you to generate the necessary air pressure inside the cuff. The release valve makes it possible to precisely regulate the air outlet from the cuff which allows you to measure blood pressure. Each manometer has a reading scale ranging from 0 to 300 mmHg (mmHg = millimeters of mercury). Minor notches are traced every 2mmHg and the bigger notches every 100mmHg for an easy reading. The measurement precision is more or less 3mmHg. Each sphygmomanometer is gauged and subjected to a final check.

### 5. Regulations and directives of reference

The LOGIKO sphygmomanometers by Moretti are built in compliance with current standard EN 81060-1 Non-invasive sphygmomanometers - Part 1: Requirements and test methods for non-automated measurement type

### 6. General assembly of parts

**2-TUBE ANEROID SPHYGMOMANOMETER** - Connect one tube of the air chamber to the manometer and the other tube to the bulb with the pressure regulation valve.

### 1-TUBE ONEHAND ANEROID SPHYGMOMANOMETER

- Connect the tube of the air chamber to the relevant plug on the palm aneroid sphygmomanometer.

### 2-TUBE ONE HAND ANEROID SPHYGMOMANOMETER

- Connect one tube of the air chamber to one of the two plugs on the palm sphygmomanometer. Connect the other tube to the remaining plug on the sphygmomanometer.

### 7. Warnings for use

- Please read carefully this manual to ensure correct use of the device;
- Always follow the instructions given with regard to the product you have purchased;
- Always keep the device out of the reach of children;
- Never take pressure above 300 mmHg.

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**8. Warnings for measuring blood pressure**

- Generally speaking, you should always use the left arm;
- Avoid all activity prior to taking the measurement;
- Do not eat, drink or move whilst taking your blood pressure;
- Do not press the head of the stethoscope with your fingers. This could affect the blood pressure reading;
- Always measure blood pressure at the same time;
- Always record the time and date of measurement.

### 9. Conditions for an accurate measurement

The measurement must be carried out with the patient sitting in comfortably seat and in a quiet clean environment. Get back support. Make legs uncrossed and place the patient's elbow on the table so as to get the appliance at the same height as his/her heart (middle of cuff on the upper arm at the level of the right atrium). The arm must be free. If the clothes are rolled up they must not over squeeze the arm. The patient must turn the palm of his/her hand upwards, relax as much as possible, sit still and he/she should not speak or move while the pressure is being measured. A recommendation that 5 min should elapse before the first reading is taken.

### A recommendation for the use of K5 in ascultation of adults:

K5 is the point at which the Korotkoff sounds can no longer to be heard.

### A recommendation for the use of K4 in ascultation of children aged 3 to 12:

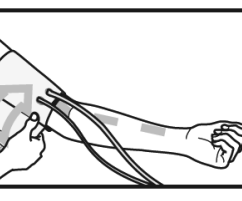
K4 is the change in the tones heard through a stethoscope from a clear tapping sound to a muffled sound.

### A recommendation for the use of K5 in ascultation of pregnant female patients:

Unless sounds are audible with the cuff deflated, in which case K4 should used

### 10. How to use

The user should be in a warm place. Clothing must be removed from the left arm. Sit at a table or desk, where it is easier to rest your arm. Position your elbow on the table so that it is approximately the same height as your heart. Turn your arm so that the palm of your hand faces upwards. Wrap the cuff around your bare arm, ensuring that the centre of the cuff corresponds to the brachial artery. The lower end of the cuff must be approximately 2-3 cm above the elbow joint. Tighten the cuff so that it adheres closely to your arm. You must be able to insert a finger between the cuff and your arm.



**N.B. Do not tighten too far or the blood flow will be reduced significantly. Insert the stethoscope head (OPTIONAL) beneath the centre of the cuff, approximately 3-4 cm away from the elbow joint.**

**N.B. The stethoscope should not be pressed too firmly against the cuff, or the diastolic pressure measured will be a false reading.**

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Wear the stethoscope binaural in order to hear the heartbeat. Now inflate the air chamber of the cuff using the pump supplied. To do so, first ensure that you have closed the pressure bleed valve. Pump air into the circuit until pressure reaches approximately 30 mmHg above normal systolic pressure (if this is the first time you measure your blood pressure, inflate up to approximately 180 mmHg). Remain very still whilst measuring pressure. Start to deflate the air chamber slowly, adjusting the bleed valve in order to obtain a constant loss of pressure of approximately 2-3 mmHg per second. Listen to the stethoscope as you watch the manometer. When you can clearly perceive at least two consecutive heartbeats, this is your peak (SYSTOLIC) pressure. When these beats cease being recognisable, you have your lowest (DIASTOLIC) pressure. After having obtained both pressure readings, open the bleed valve completely to quickly empty the air chamber of all residual pressure. Now remove the stethoscope and cuff. Do not keep the cuff inflated for too long.

### 10.1 Choosing the size of the cuff

**IMPORTANT FOR THE CHOICE OF THE SIZE OF THE CUFF IS THE CIRCUMFERENCE OF THE PATIENT UPPER ARM.** The device comes with an adult cuff. This cuff is suitable for an upper arm circumference from 26 to 36 cm. For different measures should be used different cuffs according to the table in this manual.

### A recommendation for the use of K5 in ascultation of children aged 3 to 12:

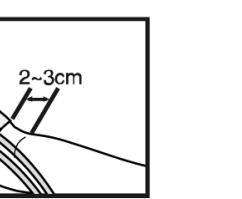
K5 is the point at which the Korotkoff sounds can no longer to be heard.

### A recommendation for the use of K5 in ascultation of pregnant female patients:

Unless sounds are audible with the cuff deflated, in which case K4 should used

### 10. How to use

The user should be in a warm place. Clothing must be removed from the left arm. Sit at a table or desk, where it is easier to rest your arm. Position your elbow on the table so that it is approximately the same height as your heart. Turn your arm so that the palm of your hand faces upwards. Wrap the cuff around your bare arm, ensuring that the centre of the cuff corresponds to the brachial artery. The lower end of the cuff must be approximately 2-3 cm above the elbow joint. Tighten the cuff so that it adheres closely to your arm. You must be able to insert a finger between the cuff and your arm.



**N.B. Do not tighten too far or the blood flow will be reduced significantly. Insert the stethoscope head (OPTIONAL) beneath the centre of the cuff, approximately 3-4 cm away from the elbow joint.**

**N.B. The stethoscope should not be pressed too firmly against the cuff, or the diastolic pressure measured will be a false reading.**

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Model	Description	Without bladder	With single inner-tube bladder	With two inner-tubes bladder
	<b>OBESE PEOPLE</b>	-	DR314	-
Velcro-fastening With D-ring	<b>ADULT TYPE</b> Measurements cuff L: 48,3x14 cm Arm circumference $\varnothing$ 26-36 cm	DR121B	DR1434	DR1424
Velcro-fastening With D-ring, with stethoscope	<b>ADULT TYPE</b> Measurements cuff L: 48,3x14 cm Arm circumference $\varnothing$ 26-36 cm	DR122	DR1437	DR1427
Velcro-fastening With D-ring, color GREY	<b>ADULT TYPE</b>	-	DR1439	DR1429

### 11. Care and maintenance

The LOGIKO devices by Moretti are CE marked and carefully checked before being released for sale. Each sphygmomanometer is calibrated and subjected to a final thorough control. Before each use, while resting, check that the needle on the aneroid sphygmomanometer dial is within the tolerance range permitted of +/- 3 mmHg (this can be noted by the greater marking of the graduated scale slightly above and below zero). Appliances out of this tolerance range must be recalibrated. Consult your retailer for qualified technical assistance. Only original replacement parts and accessories must be used for repairs.

### 12. Cleaning

**GAUGE** - Only use a soft, dry cloth.  
**BULB WITH VALVE** - Only use a soft damp cloth and then dry thoroughly.  
**CUFF** - To correctly clean the cuff, remove the air chamber, then wash the cuff using warm water and neutral soap.  
**AIR CHAMBER** - Wash with warm water and neutral soap, taking care not to allow the water to enter. Should a little water enter the air chamber, allow to dry well before use by arranging the tubes pointing downwards to allow the water to drain out.  
**STHETOSCOPE (OPTIONAL)** - Only use a soft damp cloth and then dry thoroughly. For the remaining parts, use warm water and neutral soap. Dry well.

Model	Description	Without bladder	With single inner-tube bladder	With two inner-tubes bladder
	<b>THIGH TYPE</b> Measurements cuff L: 80x21 cm Arm circumference $\varnothing$ 42-57 cm	DR126	DR1438	DR125
Velcro-fastening Without D-ring	<b>OBESE PEOPLE</b> Measurements cuff L: 60x18 cm Arm circumference $\varnothing$ 32-47 cm	DR123	DR1435	DR1425
	<b>ADULT TYPE</b> Measurements cuff L: 51x14 cm Arm circumference $\varnothing$ 26-36 cm	DR120B	DR1433	DR1423
Hook-fastening Without D-ring	<b>ADULT TYPE</b> Measurements cuff L: 50x14 cm Arm circumference $\varnothing$ 26-38 cm	DR124	DR1436	DR1426
	<b>TEENAGER TYPE</b> Measurements cuff L: 48x10 cm Arm circumference $\varnothing$ 24-32 cm	DR119	DR1432	DR1422
Velcro-fastening Without D-ring	<b>CHILD TYPE</b> Measurements cuff L: 38x6,5 cm Arm circumference in $\varnothing$ 13-26 cm	DR118	DR1431	DR1421
	<b>NEWBORN TYPE</b> Measurements cuff L: 22x4,5 cm Arm circumference $\varnothing$ 7-13 cm	DR117	DR1430	DR1420

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**13. Condition of disposal**  
13.1 - General conditions of disposal  
In case of disposal don't use the inserting container for municipal waste. We recommend to dispose the bath chair in the appropriate disposal areas for recycling.

### 14. Spare parts / accessories

Please refer to the general MORETTI catalogue for spare parts and accessories

### 15. Technical features

Model	Manometer	Gauge	Weight	Dial	Cuff	Bulb	Gauge	Valve
DM330	$\varnothing$ 50 mm	$\varnothing$ 45 mm	363 g	Graduated scale traced every 2mmHg (small notches), the bigger notches with numbers every 20 mmHg)	2-tube	PVC	Light-alloy, blue painted	With hand screw
DM333	$\varnothing$ 50 mm	$\varnothing$ 45 mm	478 g					
DM335	$\varnothing$ 50 mm	$\varnothing$ 45 mm	320 g	1-tube	1-tube	PVC	Blue painted light-alloy gauge with blue rubber protection ring	With hand screw
DM342	$\varnothing$ 60 mm	$\varnothing$ 57 mm	986 g					
DM343	$\varnothing$ 67 mm	$\varnothing$ 57 mm	606 g	2-tube	2-tube	PVC	Chrom-plated, light-alloy	Release button
DM345	$\varnothing$ 65 mm	$\varnothing$ 60 mm	430 g					
DM346	$\varnothing$ 65 mm	$\varnothing$ 60 mm	446 g	1-tube	1-tube	PVC	Chrom-plated, light-alloy	Shockproof material
DM347	$\varnothing$ 65 mm	$\varnothing$ 57 mm	350 g					
DM348	$\varnothing$ 67 mm	$\varnothing$ 57 mm	426 g	1-tube	1-tube	PVC	Chrom-plated, light-alloy	With hand screw
DM350A	$\varnothing$ 50 mm	$\varnothing$ 50 mm	483 g					
DM350F	$\varnothing$ 50 mm	$\varnothing$ 50 mm	483 g	2-tube	2-tube	PVC	Black painted light-alloy gauge	With hand screw
DM350R	$\varnothing$ 50 mm	$\varnothing$ 50 mm	483 g					
DM353A	$\varnothing$ 50 mm	$\varnothing$ 50 mm	603 g	2-tube	2-tube	PVC	Lightweight coloured plastic	With hand screw
DM353F	$\varnothing$ 50 mm	$\varnothing$ 50 mm	603 g					
DM353R	$\varnothing$ 50 mm	$\varnothing$ 50 mm	603 g	1-tube	1-tube	PVC	Lightweight coloured plastic	With hand screw
DM360	Square 145x145 mm	Square 150x150 mm	725 g					
DM365	Square 145x145 mm	Square 150x150 mm	450 g	1-tube	1-tube	PVC	Lightweight coloured plastic	With hand screw
DM365	Square 145x145 mm	Square 150x150 mm	450 g					

### 16.2 Spare parts

The original Moretti spare parts are guaranteed for 6 (six) months from the receiving date.

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**13. Condition of disposal**  
13.1 - General conditions of disposal  
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DM360	Square 145x145 mm	Square 150x150 mm	725 g					
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