WARRANTY CARD

Model No..... Lot No. .....

Invoice No..... Date of Purchase .....

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Dealer Sign & Stamp

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Plot No. 45, Industrial Area, Phase-II
Panchkula (HR)- 134113
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Website: *www.drodin.in*

Dr. Odin®

LCD MERCURY FREE SPHYGMOMANOMETER OLS103

LCD Mercury Free Sphygmomanometer
Instruction manual
Model No. OLS103

Intended for Use

LCD mercury free sphygmomanometer is used by professional healthcare provides and individuals trained in the auscultatory blood pressure technique to determine systolic and diastolic blood pressure in human.

Description : LCD mercury free sphygmomanometer(OLS103) is the electronic equipment used to measure the body's blood pressure screening devices, The method of measurement is auscultation with help of stethoscope used to determine systolic and diastolic pressure. The use of LCD light, are easy-to-read measurement. LCD light moves to indicate the blood pressure of the patient . Its Functioning and accuracy is similar to Mercurial Instrument. It is Sturdy, durable, light weight and molded cabinet. It has special cuff, bladder and bulb and is more durable. The device can display pressure reading in mmHg or KPA. There are two displays in this device: LCD column and Numerical display. The device consumes very little power, which minimizes risk of quick draining of the battery.

Specification

- Measure unit : mmHg
- Type: Non-Mercury
- Display: LCD
- Minimal scale: LCD column: 2mmHg ; Numerical display: 1mmHg
- Measurement method: Stethoscopy
- Measure scope: LCD column: 0-300mmHg, Numerical display: 0-300mmHg
- Overpressure warning: LCD top will flash when pressure is more than 315mmHg
- Pulse rate: 30-200/min, ± 5%
- Pressurization: Manual by squeezing latex bulb
- Depressurization: Manually by air release control valve
- Power supply: 4.5V, Batttery cell AA*3, or USB type AC Adapter Relative
- Humidity: 30%-85%
- Operation environment: +10°C – +40°C
- Store environment: -10°C – +60°C

Measurement Procedure

- Take out the sphygmomanometer .Open it by pressing it unlock switch.
- Open battery cover by pressing , Fit the 3 AA battery correctly, Now push fit battery cover
- Connect the cuff's tube to sphygmomanometer Inlet pressure point situated above of battery cover.
- Press "ON/ OFF" button, LCD column display black spot in unknown sate and numerical display show as "000" at starting. and starting to work immediately, don't need to wait .It has background light. To save power, when using internal power supply,light will shut off automatically if the pressure keep under 20mmHg and over 5 minutes. It can use outer power supply through USB port. In this way, there is no automatic shut- off function for both background light and machine.There are two displays in this machine: LCD column and Numerical display. LCD display scope is 0-300mmHg.
- Overpressure Warning: When pressure is over 315mmHg ,top of LCD column will flash. You should shut off machine and release all air inside cuff and start again
- Apply the cuff Nylon cuffs are specially designed to promote the precisely accurate determination of blood pressure. The artery marking indicates proper cuff positioning. Place the cuff over the bare upper arm with the artery mark positioned directly over the brachial artery. The bottom edge of the cuff should be positioned approximately (1") one inch (2-3cm) above the antecubital fold. Wrap the end of the cuff not containing the bladder around the armsnugly and smoothly and engage adhesive strips .
- Inflate the cuff close the valve by turning thumbscrew clockwise. Palpate the radial artery while inflating the cuff. Be sure to inflate cuff quickly by squeezing bulb rapidly. Inflate cuff 20-30 mmHg above the point at which the radial pulse disappears.
- Position the Stethoscope Position the chestpiece in the antecubital space below the cuff, distal to the brachium. Do not place chestpiece underneath the cuff, as this impedes accurate measurement. Use the bell side of a combination for clearest detection of the low pitched Korotkoff (pulse) sounds.
- Deflate the cuff Open the valve to deflate the cuff gradually at a rate of 2-3mmHg per second . when the first pulse of Korotkoff sound will be heard note down corresponding pressure reading of systolic pressure in the LCD column and numerical display . and continue to deflate cuff when gradually Korotkoff sound of pulse the disappear note down corresponding pressure reading of diastolic pressure in the LCD column and numerical display .
- Measurement Record the onset of Korotkoff sounds as the systolic pressure, and the disappearance of these sounds as diastolic pressure. After measurement is completed, open valve fully to release any remaining air in the cuff. Remove cuff. press the ON / OFF button off. Flick of the top cover, covered the top to bottom together, Press it for automatically locking.
- When the LCD [+ -] symbol display that means battery is Low, then the sphygmomanometer not work , Please replace three new "AA" battery cell.

Care and Maintenance

While Taking Measurement

- Sit still and quietly while measuring. Talking or moving may elevate measurements.
- When taking multiple measurements right after each other, make sure you wait at least10 minutes in between. Waiting will allow your blood vessels to return to their normal state.
- Sit with your legs uncrossed and your feet flat on the floor. Do not touch the cuff at any time during the measurement. Relax.
- Use proper-sized cuffs: Cuffs that are too loose or too tight may influence the accuracy of blood pressure measurements. The cuff should be 80% of the circumference of the upper arm. Be sure not to place the cuff on a clothed arm.
- Properly place the cuff on the arm: While wrapping the cuff around the upper arm, keep the lower edge of the cuff one inch or 2 cms above the antecubital fossa, the region of the arm in front of the elbow.

Cuff Cleaning and Disinfecting

Use one or more of the following method and allow to air dry:

- Wipe with 70% isopropyl alcohol
- Wipe with .5% bleach and water solution.

CAUTION :Do not iron cuff.

CAUTION : Do not heat or steam sterilize cuff

STORAGE : After measurement, fully exhaust cuff then wrap cuff around gauge and bulb and store in cabinet.

General Warnings

A warning statement in this manual identifies a condition or practice which, if not corrected or discontinued immediately could lead to patient injury, illness or death.

WARNING : Do not allow a blood pressure cuff to remain on patient for more than 10 minutes when inflated above 10 mmHg. This may cause patient distress, disturb blood circulation, and contribute to the injury of peripheral nerves. or death.
WARNING : Safety and effectiveness with neonate cuff sizes 1 through 5 is not established.
WARNING : If this equipment is modified, appropriate inspection and testing must be conducted to ensure its continued safe use.
WARNING : Do Not apply cuff to delicate or damaged skin. Check cuff site frequently for irritation.
WARNING : Only use the cuff when the range marking indicated on the cuff show that the proper cuff size is selected, otherwise erroneous readings may result.
WARNING : Allow space between patient and cuff. Two fingers should fit in this space if the cuff is correctly positioned .
WARNING : Do not apply to limbs used for IV infusion.
WARNING : Patient should remain still during measurement to avoid erroneous readings.