

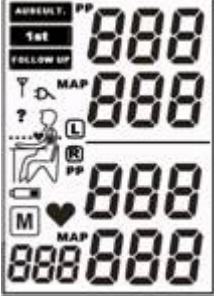



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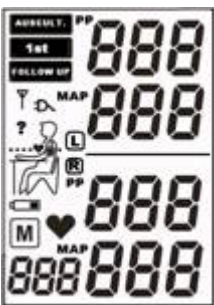



# **Instruction Manual of WatchBP Pro**

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## operational sequence

Actions	LCD display	Description	Remark
* Power –Up the WatchBP Pro		<ul style="list-style-type: none"> <li>● Locate the black power switch on the back side.</li> <li>● Turn it on</li> <li>● The green indicator light on the top right front of the WatchBP Pro will illuminate and remain lit.</li> </ul>	
*Power –Up the Bluetooth		<ul style="list-style-type: none"> <li>● Locate the silver BT switch on the back side.</li> <li>● Turn it on</li> <li>● “Antenna” icon is flashing and waiting for connection</li> <li>● Please refer to User’s guideline for WatchBP Pro Middleware</li> </ul>	
*First time switch on		<ul style="list-style-type: none"> <li>● Switch on the O/I button at the back side of the unit, LCD full segments display for 1 second with backlight on</li> </ul>	
<b>Auscultative Mode</b> (one time measurement, on left arm).			
*Measuring mode selection		<ul style="list-style-type: none"> <li>● Mode switch to AUSCULT., device ready for measuring.</li> <li>● Plug icon shows on LCD if 7.5V, 2.0A adaptor is used.</li> </ul>	



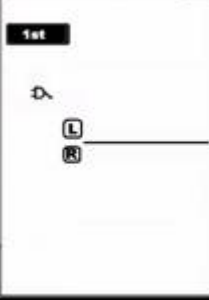
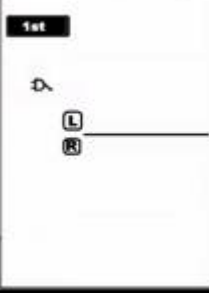
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*Cuff connection		<ul style="list-style-type: none"> <li>● Binding left-arm cuff on your left arm and place chest-piece of stethoscope on your brachial artery correctly.</li> </ul>	
*Press Start/Stop button		<ul style="list-style-type: none"> <li>● LCD full segment displays for 2 seconds with backlight on</li> </ul>	
*Auto zero reset		<ul style="list-style-type: none"> <li>● Display shows "0" when device in auto zero reset.</li> </ul>	<ul style="list-style-type: none"> <li>● 5 short "B"s</li> </ul>
* Fuzzy inflation		<ul style="list-style-type: none"> <li>● Pumping starts, and cuff pressure increases to working pressure (for fuzzy inflation).</li> </ul>	
* Deflation		<ul style="list-style-type: none"> <li>● Pumping stops, pressure in deflation by 2~4 mmHg/sec.</li> </ul>	

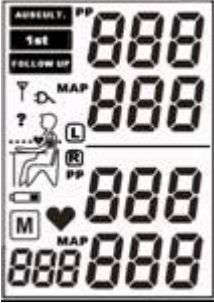
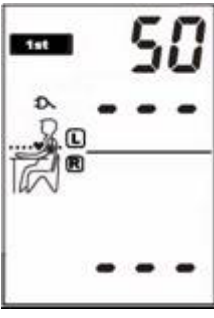
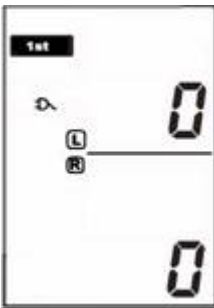


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<p>*Catch the SYS pressure.</p>		<ul style="list-style-type: none"> <li>● Press “M” button when a faint, rhythmic tapping or thumping sound is heard, which stands for your SYS reading.</li> </ul>	
<p>*Catch the DIA pressure</p>		<ul style="list-style-type: none"> <li>● Press “M” button when your diastolic reading reaches and thumping sound stops, this is DIA reading.</li> </ul>	
<p>* Measurement finishes</p>		<ul style="list-style-type: none"> <li>● When measuring finishes, cuff deflates completely and a long beep sounds.</li> <li>● AUT (auto-measured result), AUS (Aus-measured result) display for about 2 sec with backlight on simultaneously.</li> </ul>	<ul style="list-style-type: none"> <li>● A long beep</li> </ul>
<p>*Display measured values</p>		<ul style="list-style-type: none"> <li>● Device first displays of SP/DP, followed by MAP &amp; PP values.</li> <li>● SP/DP and MAP/PP values display one after the other.</li> <li>● Backlight remains on 40 sec.</li> </ul> <p>*Under auscult. mode, device auto measures patient’s BP &amp; pulse and shows the results on the upper side of LCD (AUT).</p>	<ul style="list-style-type: none"> <li>● PP=SP-DP</li> <li>● MAP= DP+1/3 PP</li> </ul>



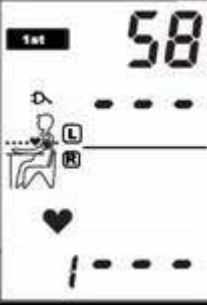


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<p>*Memory reading</p>		<ul style="list-style-type: none"> <li>● Device auto memorizes one set of measured values. Press M button, LCD shows AUE/AUS, then memory readings, with backlight on simultaneously</li> <li>● Memory SP/DP and MAP/PP displays one after the other.</li> <li>● Backlight remains on 40 sec.</li> </ul>	<ul style="list-style-type: none"> <li>●</li> </ul>
<p>*Withdraw from readings</p>		<ul style="list-style-type: none"> <li>● Press Start/Stop button or put the device untouched for 5' to terminate measurement display.</li> </ul>	<ul style="list-style-type: none"> <li>●</li> </ul>
<p><b>First Visit mode</b> (3 times measurement in succession, on both arms).</p>			
<p>*Measuring mode selection</p>		<ul style="list-style-type: none"> <li>● Mode switch to 1<sup>st</sup> and device ready for measuring.</li> </ul>	<ul style="list-style-type: none"> <li>●</li> </ul>
<p>*Cuff and blue tooth connection</p>		<ul style="list-style-type: none"> <li>● Binding left &amp; right arm cuffs on your both arms correctly.</li> <li>● Push blue-tooth switch on the back side of device (ON/OFF sculpted) to "ON" for computer connection if remote control.</li> </ul>	<ul style="list-style-type: none"> <li>●</li> </ul>



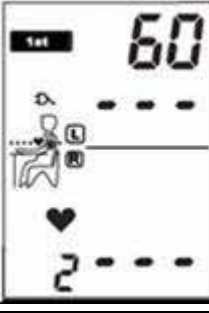
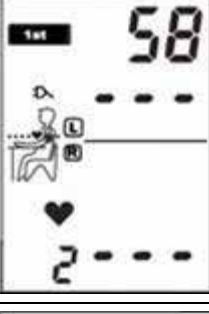
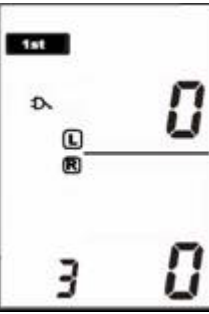
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<p>*Press Start/Stop button or remote control.</p>		<ul style="list-style-type: none"> <li>● LCD full segment displays for 1 second with backlight on</li> </ul>	
<p>*60 sec count down before measurement.</p>		<ul style="list-style-type: none"> <li>● Beeper sounds 5 seconds before the 1<sup>st</sup> measurement.</li> <li>● Press Start/Stop button or remote control to skip over count down and begin 1<sup>st</sup> turn measuring immediately.</li> </ul>	<ul style="list-style-type: none"> <li>● 5 short "B"s</li> </ul>
<p>* Auto zero reset</p>		<ul style="list-style-type: none"> <li>● Display shows "0" for 2 sec when device in auto zero reset.</li> </ul>	<ul style="list-style-type: none"> <li>● 5 short "Bs"</li> </ul>
<p>* First turn fuzzy inflation.</p>		<ul style="list-style-type: none"> <li>● Pumping starts &amp; cuff pressure increases to working pressure (for fuzzy inflation).</li> </ul>	
<p>*First turn deflation.</p>		<ul style="list-style-type: none"> <li>● Pumping stops, pressure in deflation by 4~6 mmHg/sec.</li> </ul>	

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<p>*Pulse detected</p>		<ul style="list-style-type: none"> <li>● Detect the pulse, “♥” icon start to flash and a beep is heard for every heartbeat.</li> </ul>	<ul style="list-style-type: none"> <li>● Beeper each pulse</li> </ul>
<p>*First turn measurement finishes</p>		<ul style="list-style-type: none"> <li>● After first turn measuring, cuff deflates completely, and a long beeper sounds</li> <li>● After another two close beeps, device comes into 60 sec count down.</li> </ul>	<ul style="list-style-type: none"> <li>● A long “B”, and 2 short</li> </ul>
<p>*60 sec count down</p>		<ul style="list-style-type: none"> <li>● Beeper sounds 5 seconds before the 2<sup>nd</sup> measurements.</li> <li>● Press Start/Stop button or remote control to skip over count down and begin 2<sup>nd</sup> turn measuring immediately.</li> </ul>	<ul style="list-style-type: none"> <li>● 5 short “Bs”</li> </ul>
<p>* Auto zero reset</p>		<ul style="list-style-type: none"> <li>● Display shows “0” for 2 sec when device in auto zero reset.</li> </ul>	<ul style="list-style-type: none"> <li>● 5 short “Bs”</li> </ul>
<p>* 2<sup>nd</sup> turn fuzzy inflation.</p>		<ul style="list-style-type: none"> <li>● Pumping starts &amp; cuff pressure increases to working pressure (for fuzzy inflation).</li> </ul>	<ul style="list-style-type: none"> <li>●</li> </ul>

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<p>*2<sup>nd</sup> turn deflation.</p>		<ul style="list-style-type: none"> <li>● Pumping stops, pressure in deflation by 4~6 mmHg/sec.</li> </ul>	<ul style="list-style-type: none"> <li>●</li> </ul>
<p>*Pulse detected</p>		<ul style="list-style-type: none"> <li>● Detect the pulse, “♥” icon start to flash and a beep is heard for every heartbeat.</li> </ul>	<ul style="list-style-type: none"> <li>● A beep each pulse</li> </ul>
<p>*2<sup>nd</sup> turn measurement finishes</p>		<ul style="list-style-type: none"> <li>● After 2<sup>nd</sup> turn measuring, cuff deflates completely, and a long beeper sounds</li> <li>● After another two close beeps, device comes into 60 sec count down.</li> </ul>	<ul style="list-style-type: none"> <li>● A long “B”, and 2 short</li> </ul>
<p>*60 sec count down</p>		<ul style="list-style-type: none"> <li>● Beeper sounds 5 seconds before the 2<sup>nd</sup> measurements.</li> <li>● Press Start/Stop button or remote control to skip over count down and begin 3<sup>rd</sup> turn measuring immediately.</li> </ul>	<ul style="list-style-type: none"> <li>● 5 short “Bs”</li> </ul>
<p>*Auto zero reset</p>		<ul style="list-style-type: none"> <li>● Display shows “0” for 2 sec when device in auto zero reset.</li> </ul>	<ul style="list-style-type: none"> <li>● 5 short “Bs”</li> </ul>

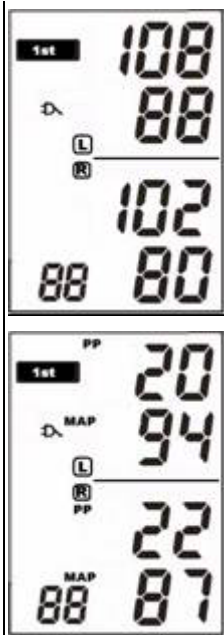


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<p>*3<sup>rd</sup> turn fuzzy inflation.</p>		<ul style="list-style-type: none"> <li>● Pumping starts &amp; cuff pressure increases to working pressure (for fuzzy inflation).</li> </ul>	
<p>*3<sup>rd</sup> turn deflation.</p>		<ul style="list-style-type: none"> <li>● Pumping stops, pressure in deflation by 4~6 mmHg/sec.</li> </ul>	
<p>*Pulse detected</p>		<ul style="list-style-type: none"> <li>● Detect the pulse, “♥” icon start to flash and a beep is heard for every heartbeat.</li> </ul>	<ul style="list-style-type: none"> <li>● A beep each pulse</li> </ul>
<p>*The 3<sup>rd</sup> turn measuring finishes</p>		<ul style="list-style-type: none"> <li>● After 3<sup>rd</sup> turn measuring, cuff deflates completely, and a long beeper sounds</li> </ul>	<ul style="list-style-type: none"> <li>● A long “B”.</li> </ul>

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\* Display of average values



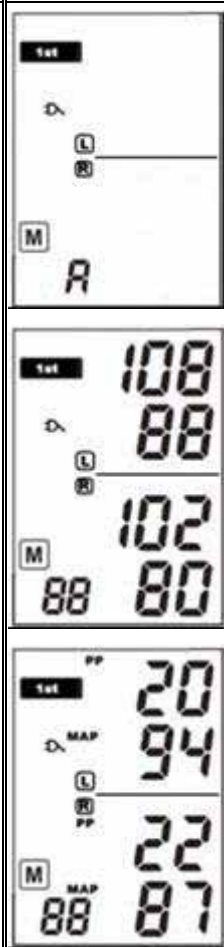
- LCD displays values averaged from 3 times measurement with backlight on simultaneously.
- Left arm BP values will flash 5 times by default if difference between L and R values are less than 10 mmHg, otherwise, the higher (L or R) flashes 5 times.
- Display of SP/DP, following which, MAP & PP shows on.
- SP/DP and MAP/PP values display one after the other till device auto off.
- Backlight remains on 40 sec.

\*Data transmission.



- Through blue tooth, measured values are submitted to computer for further analysis.

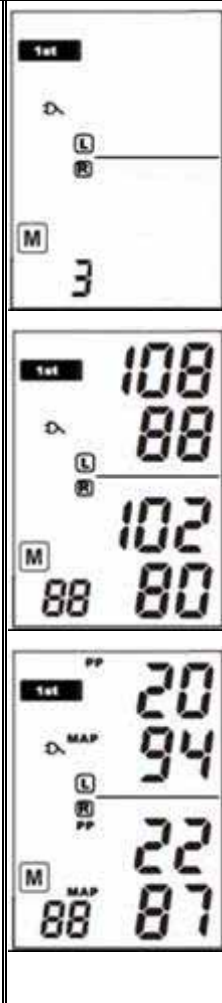
\*Memory reading--average values display.



- Device auto memorizes 3 times measured values and their average readings.
- Press M button, LCD shows an "A" then average readings, with backlight on simultaneously
- Averaged SP/DP and MAP/PP displays one after the other.
- Backlight remains on 40 sec.

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\* Memory reading--3<sup>rd</sup> turn measured values display.



- Press M button again, LCD shows a “3” then displays of the 3<sup>rd</sup> turn measured values.
- SP/DP and MAP/PP displays one after the other.

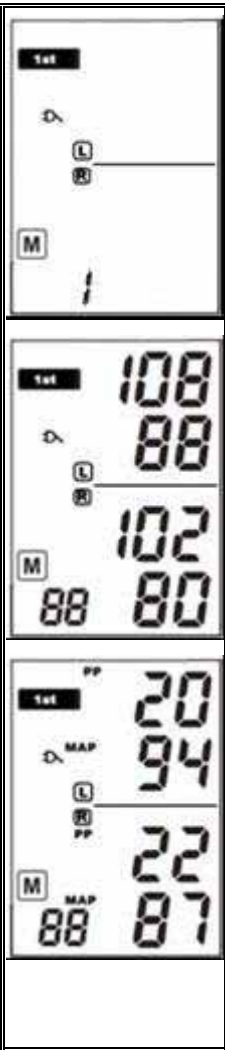
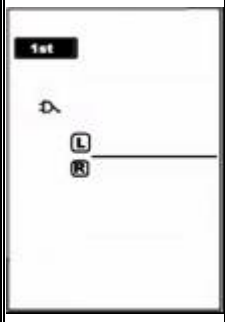
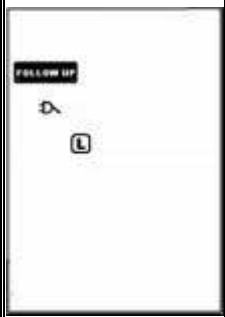
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\*Memory reading--2<sup>nd</sup> turn measured values display.



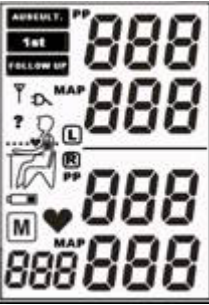




- Press M button again, LCD shows a “2” then displays of the 2<sup>nd</sup> turn measured values.
- SP/DP and MAP/PP displays one after the other.






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<p>*Memory reading--1<sup>st</sup> turn measured values display.</p>		<ul style="list-style-type: none"> <li>● Press M button again, LCD shows a “1” then display of the 1<sup>st</sup> turn measured values.</li> <li>● SP/DP and MAP/PP displays one after the other.</li> </ul>
<p>*Withdraw from readings</p>		<ul style="list-style-type: none"> <li>● Press Start/Stop button or put the device untouched for 5’ to terminate measurement display.</li> </ul>
<p><b>Follow up mode</b> (3 times measurement in succession, optional on left or right arm).</p>		
<p>*Measuring mode selection</p>		<ul style="list-style-type: none"> <li>● Mode switch to “FOLLOW UP” and device ready for measuring.</li> </ul>





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<p>*Cuff and blue tooth connection</p>		<ul style="list-style-type: none"> <li>● Binding left &amp; right arm cuffs on your both arms correctly.</li> <li>● Push blue-tooth switch on the back side of device (ON/OFF sculpted) to “ON” for computer connection if remote control.</li> </ul>	
<p>*Choose one preferred arm for measurement.</p>		<ul style="list-style-type: none"> <li>● Hold down M button for 3 sec, memory shows with backlight on, till L or R flashes.</li> <li>● Press M button to choose that preferred arm for measurement, and press Start/Stop button for confirmation.</li> </ul>	
<p>*Press Start/Stop button or remote control.</p>		<ul style="list-style-type: none"> <li>● LCD full segment displays for 1 second with backlight on</li> </ul>	
<p>*60 sec count down before measurement.</p>		<ul style="list-style-type: none"> <li>● Beeper sounds 5 seconds before the 1<sup>st</sup> measurement.</li> <li>● Press Start/Stop button or remote control to skip over count down and begin 1<sup>st</sup> turn measuring immediately.</li> </ul>	<ul style="list-style-type: none"> <li>● 5 short “B”s</li> </ul>
<p>*Auto zero reset</p>		<ul style="list-style-type: none"> <li>● Display shows “0” for 2 sec when device in auto zero reset.</li> </ul>	<ul style="list-style-type: none"> <li>● 5 short “B”s</li> </ul>

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<p>* First turn fuzzy inflation.</p>		<ul style="list-style-type: none"> <li>● Pumping starts &amp; cuff pressure increases to working pressure (for fuzzy inflation).</li> </ul>	
<p>*First turn deflation.</p>		<ul style="list-style-type: none"> <li>● Pumping stops, pressure in deflation by 4~6 mmHg/sec.</li> </ul>	
<p>*Pulse detected</p>		<ul style="list-style-type: none"> <li>● Detect the pulse, “♥” icon start to flash and a beep is heard for every heartbeat.</li> </ul>	<ul style="list-style-type: none"> <li>● Beeper each pulse</li> </ul>
<p>*First turn measurement finishes</p>		<ul style="list-style-type: none"> <li>● After first turn measuring, cuff deflates completely and device comes into 60 sec count down.</li> </ul>	
<p>*60 sec count down</p>		<ul style="list-style-type: none"> <li>● Beeper sounds 5 seconds before the 2<sup>nd</sup> measurements.</li> <li>● Press Start/Stop button or remote control to skip over count down and begin 2<sup>nd</sup> turn measuring immediately.</li> </ul>	<ul style="list-style-type: none"> <li>● 5 short “B”s</li> </ul>

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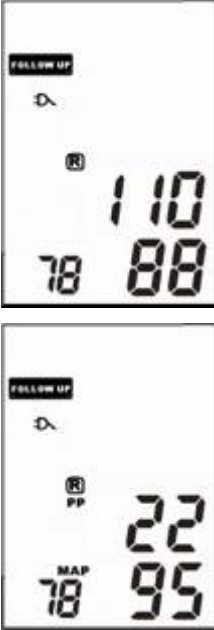
<p>* Auto zero reset</p>		<ul style="list-style-type: none"> <li>● Display shows “0” for 2 sec when device in auto zero reset.</li> </ul>	<ul style="list-style-type: none"> <li>● 5 short “Bs”</li> </ul>
<p>* 2<sup>nd</sup> turn fuzzy inflation.</p>		<ul style="list-style-type: none"> <li>● Pumping starts &amp; cuff pressure increases to working pressure (for fuzzy inflation).</li> </ul>	
<p>* 2<sup>nd</sup> turn deflation.</p>		<ul style="list-style-type: none"> <li>● Pumping stops, pressure in deflation by 4~6 mmHg/sec.</li> </ul>	
<p>*Pulse detected</p>		<ul style="list-style-type: none"> <li>● Detect the pulse, “♥” icon start to flash and a beep is heard for every heartbeat.</li> </ul>	<ul style="list-style-type: none"> <li>● A beep each pulse</li> </ul>




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<p>*2<sup>nd</sup> turn measurement finishes</p>		<ul style="list-style-type: none"> <li>● After 2<sup>nd</sup> turn measuring, cuff deflates completely.</li> <li>● If a difference of 5mmHg exists between 1<sup>st</sup>&amp;2<sup>nd</sup> time measured sys or dia pressure, device auto comes into 60 sec count down and takes the 3<sup>rd</sup> measurement.</li> </ul> <p>*Measuring finishes with a long beep and average values display if difference between 1<sup>st</sup> &amp; 2<sup>nd</sup> turn measured sys or dia pressure is less than 5 mmHg.</p>	
<p>*60 sec count down</p>		<ul style="list-style-type: none"> <li>● Beeper sounds 5 sec before the 3<sup>rd</sup> turn measurement.</li> <li>● Press Start/Stop button or remote control to skip over count down and begin 3<sup>rd</sup> turn measuring immediately.</li> </ul>	<p>● 5 short "Bs"</p>
<p>*Auto zero reset</p>		<ul style="list-style-type: none"> <li>● Display shows "0" for 2 sec when device in auto zero reset.</li> </ul>	<p>● 5 short "Bs"</p>
<p>* 3<sup>rd</sup> turn fuzzy inflation.</p>		<ul style="list-style-type: none"> <li>● Pumping starts &amp; cuff pressure increases to working pressure (for fuzzy inflation).</li> </ul>	

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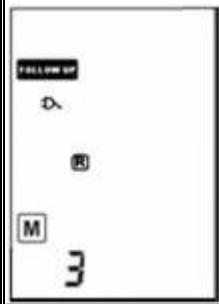
<p>*3<sup>rd</sup> turn deflation.</p>		<ul style="list-style-type: none"> <li>● Pumping stops, pressure in deflation by 2~4 mmHg/sec.</li> </ul>	
<p>*Pulse detected</p>		<ul style="list-style-type: none"> <li>● Detect the pulse, “♥” icon start to flash and a beep is heard for every heartbeat.</li> </ul>	<ul style="list-style-type: none"> <li>● A beep each pulse</li> </ul>
<p>*3<sup>rd</sup> turn measurement finishes</p>		<ul style="list-style-type: none"> <li>● After 3<sup>rd</sup> turn measuring, cuff deflates completely, and a long beeper sounds</li> </ul>	<ul style="list-style-type: none"> <li>● A long “B”.</li> </ul>
<p>* Display of average values</p>		<ul style="list-style-type: none"> <li>● LCD displays values averaged from 3 times measurement with backlight on simultaneously.</li> <li>● Display of SP/DP, following which, MAP &amp; PP shows on.</li> <li>● SP/DP and MAP/PP values display one after the other till device auto off.</li> <li>● Backlight remains on 40 sec.</li> </ul>	

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<p>*Data transmission.</p>		<ul style="list-style-type: none"> <li>● Through blue tooth, measured values are submitted to computer for further analysis.</li> </ul>	
<p>*Memory reading--average values display.</p>	 <p>The image shows three sequential LCD screen displays. The top display shows 'FOLLOW UP', a pulse icon, a registered trademark symbol, and a large 'A'. The middle display shows 'FOLLOW UP', a pulse icon, a registered trademark symbol, '110', '78', and '88'. The bottom display shows 'FOLLOW UP', a pulse icon, a registered trademark symbol, 'PP', '22', 'MAP', '78', and '95'.</p>	<ul style="list-style-type: none"> <li>● Device auto memorizes 3 times measured values and their average readings.</li> <li>● Press M button, LCD shows an "A" then average reading, with backlight on simultaneously.</li> <li>● Averaged SP/DP and MAP/PP displays one after the other.</li> <li>● Backlight remains on 40 sec.</li> </ul>	

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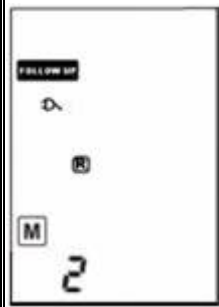
\* Memory reading--3<sup>rd</sup> turn measured values display.



- Press M button again, LCD shows a "3" then displays of the 3<sup>rd</sup> turn measured values.
- SP/DP and MAP/PP displays one after the other.

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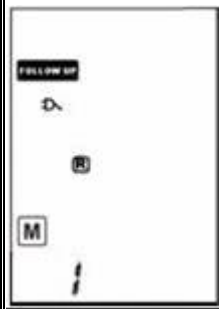
\*Memory reading--2<sup>nd</sup> turn measured values display.



- Press M button again, LCD shows a "2" then displays of the 2<sup>nd</sup> turn measured values.
- SP/DP and MAP/PP displays one after the other.

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\*Memory reading--1<sup>st</sup> turn measured values display.



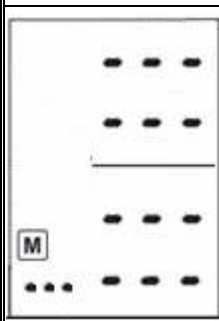
- Press M button again, LCD shows a “1” then display of the 1<sup>st</sup> turn measured values.
- SP/DP and MAP/PP displays one after the other.

\*Withdraw from readings



- Press Start/Stop button or put the device untouched for 5’ to terminate measurement display.


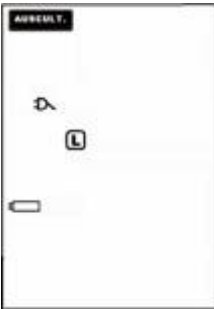

\*Memories deletion.



- Hold down M button for 7 sec till 3 short beepers are heard and bars appear on LCD with backlight on simultaneously, which means memory readings are deleted successfully.

● 3 short “B”

# microlife®

<p>* Battery low indication</p>		<ul style="list-style-type: none"> <li>● When voltage inside batteries is lower to 4.8V, LCD shows low battery icon and batteries begin to be charged if adaptor is connected.</li> </ul>	
		<ul style="list-style-type: none"> <li>● Once voltage inside batteries is lower to 4.6V, LCD shows low battery icon, then batteries must be charged again.</li> </ul>	
<p>*Turn off the device.</p>		<ul style="list-style-type: none"> <li>● Switch off O/I button at the back side of the unit</li> <li>● Memories won't be stored once the device is turned off.</li> </ul>	

## Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is



connected.

-Consult the dealer or an experienced radio/TV technician for help.

**Operation is subject to the following two conditions:**

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.

**FCC RF Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.