


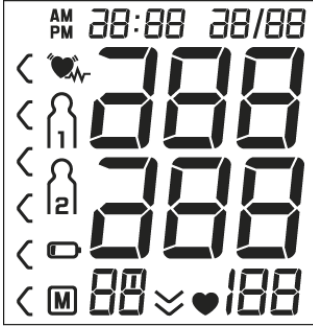


Comparison of the New with the Old

| Devices – Item 9 | G.LAB MD4180 | GRANDWAY MD2301 |
|------------------|---|--|
| Pictures |  |  |
| Display Image |  |  |
| Validation | | ESH-IP 2010, BHS and AAMI |
| Category | Blood Pressure Monitor Device | Blood Pressure Monitor Device |
| Casing – Item 10 | <p><i>Dimensions</i> 164 (L) x 99 (W) x 46 (H)cm</p> <p><i>Ports</i> N/A</p> <p><i>Features</i> Systolic and diastolic blood pressure measurement</p> | <p><i>Dimensions</i> 165 (L) x 107 (W) x 50 (H)cm</p> <p><i>Ports</i> N/A</p> <p><i>Features</i> Systolic and diastolic blood pressure measurement</p> |

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| | Pulse rate measurement Irregular heartbeat (IHB) detection and indication WHO blood pressure classification scale (WHO Guidelines 1999) Alarm clock | Pulse rate measurement Irregular heartbeat (IHB) detection and indication WHO blood pressure classification scale (WHO Guidelines 1999) |
| Display – Item 11 | <i>Type</i> Single Screen Display Segment LCD <i>Measurement Procedure</i> During Measurement: BP level & Heartbeat <i>Post Measurement</i> SBP, DBP and Pulse Measurement error: E1, E2, E3, E4, E5 and E6 Memory-Zone mean (A symbol) 7- day morning memory-zone mean (AM symbol) 7- day evening memory-zone mean (AM symbol) | <i>Type</i> Single Screen Display Segment LCD <i>Measurement Procedure</i> During Measurement: BP level & Heartbeat <i>Post Measurement</i> SBP, DBP and Pulse Measurement error: E1, E2, E3, E4, E5 and E6 Memory-Zone mean (A symbol) 7- day morning memory-zone mean (AM symbol) 7- day evening memory-zone mean (AM symbol) |
| Carrying/Mounting Facilities – Item 12 | N/A | N/A |
| Software other than Algorithm – Item 13 | Memory zone means 7- day morning memory-zone mean 7- day evening memory-zone mean Alarm clock WHO Guidelines 1999 | Memory zone means 7- day morning memory-zone mean 7- day evening memory-zone mean WHO Guidelines 1999 |
| Memory Capacity Item 14 | 240 memories x 4 users | 60 memories x 2 users |
| Printing Facilities Item 15 | N/A | N/A |
| Communication Facilities – Item 16 | N/A | N/A |
| Power Supply Item 17 | Alkaline Battery (DC 6V 600mA, LR03 (AAA) 1.5V x 4 pcs) Battery Life ~ 300 measurements | Alkaline Battery (DC 6V 600mA, LR06 (AA) 1.5V x 4 pcs) Battery Life ~ 500 measurements |

| Other differences | Memory Capacity: 240 memories x 4 users Alarm Function | Memory Capacity: 60 memories x 2 users |
|-------------------|---|---|
| Same Criteria | <p>Measurement</p> <p><i>Accuracy</i></p> <p>BP accuracy \pm 3mmHg Pulse accuracy \pm 5%</p> <p><i>Method</i></p> <p>Oscillometric method made during cuff inflation</p> <p><i>Ranges</i></p> <p>Systolic pressure: 50 – 250 mmHg Diastolic pressure: 30 – 200 mmHg Pulse rate: 40 – 180 pulse/minute Manually initiated measurements Measurements are from single inflations</p> <p><i>Inflation</i></p> <p>Inflation 0mmHg – 300mmHg Automatic Inflation Zero pressure check before inflation</p> <p><i>Deflation</i></p> <p>Automatic Deflation</p> <p><i>Cuffs (Please state sizes and materials used)</i></p> <p>Nylon Material Standard Type: 22 – 36 cm (Original), Nylon Material Large: 35 – 44 cm (Optional) Nylon Material Universal: 22 – 44 cm (Optional)</p> <p><i>Sensors</i></p> <p>US9111 Resistance Type Pressure Sensors</p> <p><i>Measurement Records</i></p> <p>Memory Capacity: 240 memories x 4 users</p> <p><i>Measurements other than Blood Pressure</i></p> <p>N/A</p> | <p>Measurement</p> <p><i>Accuracy</i></p> <p>BP accuracy \pm 3mmHg Pulse accuracy \pm 5%</p> <p><i>Method</i></p> <p>Oscillometric method made during cuff inflation</p> <p><i>Ranges</i></p> <p>Systolic pressure: 60 – 250 mmHg Diastolic pressure: 40 – 199 mmHg Pulse rate: 40 – 180 pulse/minute Manually initiated measurements Measurements are from single inflations</p> <p><i>Inflation</i></p> <p>Inflation 0mmHg – 300mmHg Automatic Inflation Zero pressure check before inflation</p> <p><i>Deflation</i></p> <p>Automatic Deflation</p> <p><i>Cuffs(Please state sizes and materials used)</i></p> <p>Nylon Material Standard Type: 22 – 36 cm (Original), Nylon Material Large: 35 – 44 cm (Optional) Nylon Material Universal: 22 – 44 cm (Optional)</p> <p><i>Sensors</i></p> <p>US9111 Resistance Type Pressure Sensors</p> <p><i>Measurement Records</i></p> <p>Memory Capacity: 60 memories x 2 users</p> <p><i>Measurements other than Blood Pressure</i></p> <p>N/A</p> |

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|--|---|--|
| | <p>Buttons/Switches</p> <p><i>Power</i> Start/Stop (ⓘ Symbol)</p> <p><i>Measurement Records</i> Memory (M Symbol) Forward (> Symbol) Backward (< Symbol)</p> <p><i>Function</i> Start/Stop (ⓘ Symbol) - Start/Stop Measurement Memory (M Symbol) - Enter Memory Mode Forward (> Symbol) - Increase value or goes forward Backward (< Symbol) - Decease value or goes backward</p> <p><i>Analysis</i> N/A</p> <p><i>Event Marking</i> Start/Stop (ⓘ Symbol) Memory (M Symbol) Forward (> Symbol) Backward (< Symbol)</p> <p><i>Communication</i> N/A</p> <p>Display/Symbols/Indicators</p> <p><i>Preparation</i> ▲ Start to inflate ▼ Zero pressure check used</p> <p><i>Measurement Procedure</i> During Measurement: BP Level, Heartbeat, ▲ and User icon</p> <p><i>Post Measurement</i> SBP, DBP and Pulse Measurement error: E1, E2, E3, E4, E5 and E6 Memory-Zone mean (A symbol)</p> | <p>Buttons/Switches</p> <p><i>Power</i> Start/Stop (ⓘ Symbol)</p> <p><i>Measurement Records</i> Memory 1 (ⓘ1 Symbol) Memory 2 (ⓘ2 Symbol)</p> <p><i>Function</i> Start/Stop (ⓘ Symbol) - Start/Stop Measurement Memory 1 (ⓘ1 Symbol) - Enter User 1 Memory Mode Memory 2 (ⓘ2 Symbol) - Enter User 2 Memory Mode</p> <p><i>Analysis</i> N/A</p> <p><i>Event Marking</i> Start/Stop (ⓘ Symbol) Memory 1 (ⓘ1 Symbol) Memory 2 (ⓘ2 Symbol)</p> <p><i>Communication</i> N/A</p> <p>Display/Symbols/Indicators</p> <p><i>Preparation</i> ⋈ Zero pressure check used</p> <p><i>Measurement Procedure</i> During Measurement: BP Level and Heartbeat</p> <p><i>Post Measurement</i> SBP, DBP and Pulse Measurement error: E1, E2, E3, E4, E5 and E6 Memory-Zone mean (A symbol)</p> |
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|-----------------------------------|--|---|
| | <p>7- day morning memory-zone mean (AM symbol) 7- day evening memory-zone mean (AM symbol) WHO blood pressure classification scale (WHO Guidelines 1999) Irregular heartbeat (IHB) detection and indication</p> <p><i>Measurement Records</i> Memory Capacity: 240 memories x 4 users</p> <p><i>Date and Time</i> Date and Time Date and Time (During memory recall and measuring)</p> <p><i>Algorithms</i> <i>Averages and Differences</i> Memory Zone Means</p> <p><i>Diagnostic</i> WHO blood pressure classification scale (WHO Guidelines 1999) Irregular heartbeat (IHB) detection</p> | <p>7- day morning memory-zone mean (AM symbol) 7- day evening memory-zone mean (AM symbol) WHO blood pressure classification scale (WHO Guidelines 1999) Irregular heartbeat (IHB) detection and indication</p> <p><i>Measurement Records</i> Memory Capacity: 60 memories x 2 users</p> <p><i>Date and Time</i> Date and Time Date and Time (During memory recall)</p> <p><i>Algorithms</i> <i>Averages and Differences</i> Memory Zone Means</p> <p><i>Diagnostic</i> WHO blood pressure classification scale (WHO Guidelines 1999) Irregular heartbeat (IHB) detection</p> |
| <p>Comparable Criteria</p> | <p>Casing Power Alkaline Battery (DC 6V 600mA, LR03 (AAA) 1.5V x 4 pcs) Battery Life ~ 300 measurements</p> <p><i>Display/Symbols/Indicators</i> <i>Preparation</i> ▲ Start to inflate ▼ Zero pressure check used</p> | <p>Casing Power Alkaline Battery (DC 6V 600mA, LR06 (AA) 1.5V x 4 pcs) Battery Life ~ 500 measurements</p> <p><i>Display/Symbols/Indicators</i> <i>Preparation</i> ∩ Zero pressure check used</p> |

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| Comments | | |
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| Recommendation | Recommended | |
| Date | 6 June 2016, Additional validation for BHS and AAMI added 20 October 2016 | |