

Device Equivalence Evaluation Form

Comparison of the BEURER BM27 with the BEURER BM28

Devices – Item 9	BEURER BM27	BEURER BM28
Pictures	Toology Control of the second	2 di 23 di 2
Display Image	< AM 28:88 < 38/38 < OK < AM 28 M WA-188 < AM AN > 88 M WA-188	
Validation		ESH 2010 ESH 2002 BHS AAMI
Category	Blood Pressure Monitor Device	Blood Pressure Monitor Device
Casing – Item 10	Dimensions L 112mm x W 110mm x H 53m Ports Cuff Port (left side) Features Systolic and diastolic blood pressure measurement 4x30 memory, cuff tightness indicator, IHB (irregular heartbeat) detection, Pulse rate measurement, risk indicator according WHO guidelines	Dimensions L 134mm x W 103mm x H 60mm Ports Cuff Port (left side) Features Systolic and diastolic blood pressure measurement 4x30 memory, cuff tightness indicator, IHB (irregular heartbeat) detection, Pulse rate measurement, risk indicator according WHO guidelines
Display – Item 11	Type LCD	Type LCD

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	Segment LCD	Segment LCD
Carrying/Mounting Facilities – Item 12	N/A	N/A
Software other than Algorithm – Item 13	4 User, date and time, 2 Alarm Average Memory zone 7- day morning average memory-zone 7- day evening average memory-zone Risk indicator WHO Guidelines 1999	4 User, date and time, 2 Alarm Average Memory zone 7- day morning average memory-zone 7- day evening average memory-zone Risk indicator WHO Guidelines 1999
Memory Capacity Item 14	Number of stored measurements 30 memories x 4 users	Number of stored measurements 30 memories x 4 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, LR6 (AA) 1.5V x 4 pcs) Battery Life ~ 300 measurements	Alkaline Battery (DC 6V 600mA, LR6 (AA) 1.5V x 4 pcs) Battery Life ~ 300 measurements Optional: Power Adapter Connection 6V-600mA
Other differences	Other Details on Equivalent device that are different to Validated device	Other Details on Validated device that are different to Equivalent device HSD (Hämodynamic stability) Indikator
Same Criteria	Measurement Accuracy BP accuracy ± 3mmHg Pulse accuracy ± 5% Method Oscillometric method made during cuff deflation Ranges Cuff pressure 0-300mmHg Systolic pressure: 50 – 280 mmHg Diastolic pressure: 30 – 200 mmHg Pulse rate: 40 – 199 pulse/minute	Measurement Accuracy BP accuracy ± 3mmHg Pulse accuracy ± 5% Method Oscillometric method made during cuff deflation Ranges Cuff pressure 0-300mmHg Systolic pressure: 50 – 280 mmHg Diastolic pressure: 30 – 200 mmHg Pulse rate: 40 – 199 pulse/minute
	Inflation 0mmHg – 300mmHg	Inflation 0mmHg – 300mmHg

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Automatic Inflation by internal Pump Automatic Inflation by internal Pump Zero pressure check before inflation Zero pressure check before inflation Deflation Deflation **Automatic Deflation System Automatic Deflation System** Cuffs (Please state sizes and materials used) Cuffs(Please state sizes and materials used) Polyester Material Standard Type: 22 – 42 cm (Original) Polyester Material Standard Type: 22 – 42 cm (Original) Bladder dimension: 140 x 250mm Bladder dimension: 140 x 250mm Sensors Sensors MSP40-GSF MSP40-GSF Measurement Records Measurement Records Memory Capacity: 30 memories x 4 users Memory Capacity: 30 memories x 4 users Measurements other than Blood Pressure Measurements other than Blood Pressure Pulse rate Pulse rate **Buttons/Switches Buttons/Switches** Power Power Start/Stop (Symbol) Start/Stop (Symbol) Measurement Records Measurement Records Memory (M Symbol) Memory (M Symbol) Forward (+ Symbol) Forward (+ Symbol) Backward (Symbol) Backward (Symbol) Function Function Start/Stop (Symbol) Start/Stop Measurement Start/Stop (Symbol) Start/Stop Measurement Memory (M Symbol) Enter Memory Mode Memory (M Symbol) Enter Memory Mode Forward (+ Symbol) Increase value or go forward Forward (+ Symbol) Increase value or go forward Backward (Symbol) decrease value or go backward Backward (Symbol) decrease value or go backward

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Setting (SET Symbol) Enter Setting mode (Date, Time)

Analysis

N/A

Event Marking

N/A

Communication

N/A

Display/Symbols/Indicators

Preparation



Zero pressure check used

Measurement Procedure

Inflation symbol

Deflation symbol

Heartbeat symbol during deflation

Irregular Heartbeat symbol

Post Measurement

SBP, DBP and Pulse

Measurement Error's: E1, E2, E3, E4, E5, E6, Battery Low

Memory-Zone mean (A symbol)

- 7- day morning memory-zone mean (AM symbol)
- 7- day evening memory-zone mean (PM symbol)

WHO blood pressure classification scale (WHO Guidelines 1999)

Irregular heartbeat (IHB) detection and indication

Measurement Records

Memory Capacity: 30 memories x 4 users

Date and Time

Date and Time

Date and Time (During memory recall and measuring)

Setting (SET Symbol) Enter Setting mode (Date, Time)

Analysis

N/A

Event Marking

N/A

Communication

N/A

Display/Symbols/Indicators

Preparation



Zero pressure check used

Measurement Procedure

Inflation symbol

Deflation symbol

Heartbeat symbol during deflation

Irregular Heartbeat symbol

Post Measurement

SBP, DBP and Pulse

Measurement Error's: E1, E2, E3, E4, E5, E6, Battery Low

Memory-Zone mean (A symbol)

7- day morning memory-zone mean (AM symbol)

7- day evening memory-zone mean (PM symbol)

WHO blood pressure classification scale (WHO Guidelines 1999)

Irregular heartbeat (IHB) detection and indication

HSD Indicator

Measurement Records

Memory Capacity: 30 memories x 4 users

Date and Time

Date and Time

Date and Time (During memory recall and measuring)

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	Power	Power
	Alkaline Battery (DC 6V 600mA, LR6 (AA) 1.5V x 4 pcs)	Alkaline Battery (DC 6V 600mA, LR6 (AA) 1.5V x 4 pcs)
	Battery Life ~ 300 measurements	Battery Life ~ 300 measurements
		Optional: Power Adapter Connection 6V-600mA
	Function	Function
	Measurement during deflation	Measurement during deflation
	Communication	Communication
	N/A	N/A
	Features	Features
	Not described	Not described
	Algorithms	Algorithms
	Averages and Differences	Averages and Differences
	A (Average of all measurements); AM (Average morning 5:00AM-	A (Average of all measurements); AM (Average morning 5:00AM-
	9:00AM), PM (Average Evening 6:00PM- 8:00PM)	9:00AM), PM (Average Evening 6:00PM- 8:00PM)
	Diagnostic	Diagnostic
	WHO blood pressure classification scale (WHO Guidelines 1999)	WHO blood pressure classification scale (WHO Guidelines 1999)
	Irregular heartbeat (IHB) detection	Irregular heartbeat (IHB) detection
	Functions	Functions
	Communication	Communication
	N/A	N/A
Comparable Criteria		

Comments		
Recommendation	RECO	MMENDED
Date	April	2022

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Declaration of Equivalence Form

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE

A SIGNED COPY WILL BE POSTED ON THE www.dableducational.org WEBSITE

SECTI	ON A	- Pleas	e comn	lete al	litomo

1	Marco Bühler,	
	Name of a Company	Director

a Director of Beurer GmbH,

hereby state that there are no differences that will affect blood pressure measuring accuracy between the

 Maker*
 Beurer GmbH
 Address
 BEURER GmbH * Söflinger Straße 218 * 89077 Ulm / Germany

 Manufacturerb
 Beurer GmbH
 Address
 BEURER GmbH * Söflinger Straße 218 * 89077 Ulm / Germany

 Brandc
 Beurer
 Modeld
 BM27

Blood pressure measuring device for which validation is claimed. If alternative model names are used, include all.

blood pressure measuring device and the validated blood pressure measuring device

Maker* Beurer GmbH Address BEURER GmbH * Söflinger Straße 218 * 89077 Ulm / Germany

Manufacturer* Beurer GmbH Address BEURER GmbH * Söflinger Straße 218 * 89077 Ulm / Germany

Brand* Beurer Model* BM28

Existing validated blood pressure measuring device.

which has previously passed the ESH-2010 protocol, the results of which were published as follows:

Full reference

The only differences between the devices involve the following components:

Tick one box for each item 1-18.

					- 1 1 1 to 1
Part I	1	Algorithm for Oscillometric Measurements	Yes 🗌	No ⊠	N/A ^e
	2	Algorithm for Auscultatory Measurements	Yes 🗌	No 🗌	N/A ^f ⊠
	3	Artefact/Error Detection	Yes 🗌	No ⊠	
	4	Microphone(s)	Yes 🗌	No □	N/A ^f ⊠
	- 5	Pressure Transducer	Yes 🗌	No ⊠	
	6	Cuffs or Bladders	Yes 🗌	No ⊠	
	7	Inflation Mechanism	Yes 🗌	No ⊠	
	8	Deflation Mechanism	Yes □	No ⊠	
Part II	9	Model Name or Number	Yes 🖂	No 🗆 -	
	10	Casing	Yes ⊠	No 🗆	
	11	Display	Yes ⊠	No 🗌	
	12	Carrying/Mounting Facilities	Yes ⊠	No 🗌	
	13	Software other than Algorithm	Yes ⊠	No □	
	14	Memory Capacity/Number of stored measurements	Yes 🗌	No 🛛	
	15	Printing Facilities	Yes □	No 🗆	N/A ⁸ ⊠
	16	Communication Facilities	Yes □	No 🗆	N/A ^g ⊠
	17	Power Supply	Yes ⊠	No 🗆	
	18	Other Facilities	Yes 🗌	No ⊠	N/Ag 🗍

An explanation of each item ticked "Yes" must be included in Section B or on a separate sheet.

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- a Provide the name and address of the actual maker of the device.
- b Provide the name and address of the legal manufacturer of the device, even if it is the same as that of the maker.
- c Provide the name of the brand under which it is sold, even if it is the same as that of the manufacturer or maker.
- d Provide the model name. If alternative or internal model names are used, include all. Each device must be uniquely identifiable.

 Only tick N/A (Not Applicable) if neither device measures blood pressure using the oscillometric method.
- f Only tick N/A (Not Applicable) if neither device measures blood pressure using the auscultatory method.
- g Only tick N/A (Not Applicable) if neither device provides printing, communication or other facilities, as appropriate.

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Declaration of Equivalence Form

SECTION B

An explanation for each item, 1 to 18, ticked "Yes" in Section A must be provided here or in an attached document. All differences between the devices must be described.

- 9. Modelname has been changed, it is a device with a different design and slightly changed functions beside the algorithm.
- 10. Casing has been changed with no change of the allgorithm
- 11. Display has been changed so that it fits to the new design of the housing.
- 12. Mounting facilities have been change because of the new design.
- 13. Software beside the algorithm has beend changed. There is an additional HSD (hemodynamic stability diagnostic) function, which helps the user to make sure that he is in rest before doing a measurement. This function is only available for BM28, the validated device.
- 17. BM28 can be used with a power adapter optionally, BM27 only with batteries.

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SECTION C	Please check that the following are included with the application	

X A manual for the validated device M A manual for the device for which equivalence is being sought × Completed DET9 Form M An image of the device for which equivalence is being sought

X An image of the screen layout of validated device* × An image of the screen layout of the device for which equivalence is being sought*

* Screen layouts shown complete, and without obscuring labels or lines, in manuals need not be included separately.

SECTION D

Date

Complete all items, bar signatures and seal, online and print. Sign and seal it then send the original to our address below. Please email a signed copy of this form, together with the manuals and images for both devices, to info@dableducational.org.

Signature of Director

MARCO BUHLER

Name 5.4.2022

Signature of Witness ________

DR. DIRK FREUND Name

12.4.2022 Address

Company Stamp/Seal Beurer GmbH

Söflinger Straße 218 . 89077 Ulm