

Declaration of Equivalence Form

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2013

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

SECTION A	- Please	complete all items.					
Patrick Name of a		Director		a Director of Grand		(Shenzher	n) Limited,
hereby stat	e that t	here are no differences tha	it will aff	ect blood pressure me	asuring accurac	y between	the
Maker ^a	Beu	Beurer		Beurer GmbH, So Germany	öflinger Strass	e 218,	89077 Ulm/
Manufacturer ^b Grandway		Address	No.5, the Second Longtian Street, Ping			g Community,	
Brand ^c Beurer Blood pressure measuring device for which validation is claimed		Model ^d If alternative	BM45				
blood press	ure me	asuring device and the vali	dated blo	ood pressure measurin	ng device		
Maker ^a	Grandway		Address	No.5, the Second Industrial Zone, Zhukeng Community, Longtian Street, Pingshan District, Shenzhen			
Manufacturer	Gran	Grandway		No.5, the Second Industrial Zone, Zhukeng Community, Longtian Street, Pingshan District, Shenzhen			
Brand ^c Existing validate		G.LAB I blood pressure measuring device.		MD2680			
which has n	revious	sly passed the ESH 2010 pi	rotocol, t	he results of which we	ere published as	follows:	
monitor acc	cording fference	G.LAB MD2680(Grandway to the European Society of es between the devices involute.	Hyperte	nsion International Pro	otocol.	automatic	blood pressure
Part I	1	Algorithm for Oscillomet	ric Meas	urements	Yes 🗆	No 🖂	N/A ^e
11001001	2	Algorithm for Auscultato			Yes 🗆	No 🔲	N/A ^f ⊠
	3	Artefact/Error Detection	Ø		Yes 🔲	No 🖂	11//1 🔼
	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	<u> </u>		Yes ⊠	No 🗌	
	10	Casing			Yes 🛛	No 🔲	
	11	Display			Yes 🛛	No 🗌	
	12	Carrying/Mounting Facili	ties		Yes 🗌	No 🖂	
	13	Software other than Algo	orithm		Yes 🖂	No 🔲	
	14	Memory Capacity/Numb	er of sto	red measurements	Yes 🖂	No 🔲	
	15	Printing Facilities			Yes 🗌	No 🔲	N/Ag 🖂
	16	Communication Facilities	5		Yes 🗌	No 🗌	N/A ^g ⊠
<u> </u>	17	Power Supply			Yes 🔲	No 🖂	
	18	Other Facilities			Yes 🗌	No 🗵	N/A ^g
An	explana	tion of each item ticked "\	es" mus	t be included in <i>Sectio</i>	on B or on a sep	arate shee	t.
Notes: a P b P	rovide the rovide the	name and address of the actual maker name and address of the legal manufa name of the brand under which it is so	of the devi	ce. e device, even if it is the same as	s that of the maker.		
4 0	royaldo +k-	model name. If alternative as internal	as a dall a seco	a and read to dead of Foot do	management by a contract of	Foreign Model For	

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 $Only\ tick\ N/A\ (Not\ Applicable)\ if\ neither\ device\ measures\ blood\ pressure\ using\ the\ oscillometric\ method.$ Only tick N/A (Not Applicable) if neither device measures blood pressure using the auscultatory method. $\label{eq:communication} Only \ tick \ N/A \ (Not \ Applicable) \ if \ neither \ device \ provides \ printing, \ communication \ or \ other \ facilities, \ as \ appropriate.$



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.

- (1) Button arrangement: Start/Stop button, M1 buttons and M2 buttons
- (2) LCD Full screen re-designed
- (3) Stores 60*2 readings

SECTION C

Please check that the following are included with the application

A manual for the validated device

A manual for the device for which equivalence is being sought

An image of the validated device

An image of the validated device

An image of the device for which equivalence is being sought

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

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

Name I

Date

Patrick Chow

18-Oct, 2021

Signature of Witness

Name

Fric Wone

Address

No.5, the Second Industrial Zone, Zhukeng Community, Longtian Street, Pingshan District,

Company Stamp/Seal

Shenzhen

Device Equivalence Evaluation Form

Comparison of the Beurer BM45 with the G.LAB MD2680

Devices – Item 9	Beurer BM45	G.LAB MD2680
Pictures	10 10 10 10 10 10 10 10 10 10 10 10 10 1	INDEX 2-3cm 3 22-32cm
Display Image	M 38:88 38/88 ()	888 888 AMPM kPa mmHg
Validation		ESH-IP 2010, BHS and AAMI
Category	Blood Pressure Monitor Device	Blood Pressure Monitor Device
Casing – Item 10	Dimensions 165(L) x 107 (W) x 50(H)cm	Dimensions 160 (L) x 99 (W) x 56 (H)cm
	Ports N/A	Ports N/A

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Device Equivalence Evaluation Form

	Systolic and diastolic blood pressure measurement	Features Systolic and diastolic blood pressure measurement
	Pulse rate measurement	Pulse rate measurement
	Irregular heartbeat (IHB) detection and indication	Irregular heartbeat (IHB) detection and indication
	WHO blood pressure classification scale (WHO Guidelines 1999)	WHO blood pressure classification scale (WHO Guidelines 1999)
Display – Item 11	Single Screen Display Segment LCD Measurement Procedure During Measurement: BP level & Heartbeat Post Measurement SBP, DBP and Pulse Measurement error: E1, E2, E3, E4, E5, E6 Memory-Zone mean (A symbol) 7- day morning memory-zone mean (AM symbol) 7- day evening memory-zone mean (PM symbol)	Single Screen Display Segment LCD Measurement Procedure During Measurement: BP level & Heartbeat Post Measurement 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 (PM 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 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	60 memories x 2 users	120 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, LR06 (AA) 1.5V x 4 pcs) Battery Life ~ 500 measurements	Alkaline Battery (DC 6V 600mA, LR06 (AA) 1.5V x 4 pcs) Battery Life ~ 500 measurements
Other differences	Nil	Nil
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Same Criteria

Measurement

Accuracy

BP accuracy ± 3mmHg Pulse accuracy ± 5%

Method

Oscillometric method made during cuff deflation

Ranges

Systolic pressure: 60 – 250 mmHg Diastolic pressure: 30 – 200 mmHg Pulse rate: 40 – 180 pulse/minute Manually initiated measurements

Measurements are from single inflations

Inflation

Inflation 0mmHg - 300mmHg

Automatic Inflation

Zero pressure check before inflation

Deflation

Automatic Deflation

Cuffs (Please state sizes and materials used)

Nylon Material Standard Type: 22 – 36 cm (Original),

Nylon Material Large: 35 – 44 cm (Optional) Nylon Material Universal: 22 – 44 cm (Optional)

Sensors

US9111 Resistance Type Pressure Sensors

Measurement Records

Memory Capacity: 60 memories x 2 users

Measurements other than Blood Pressure

N/A

Measurement

Accuracy

BP accuracy ± 3mmHg Pulse accuracy ± 5%

Method

Oscillometric method made during cuff deflation

Device Equivalence Evaluation Form

Range:

Systolic pressure: 50 – 250 mmHg Diastolic pressure: 30 – 200 mmHg Pulse rate: 40 – 180 pulse/minute Manually initiated measurements

Measurements are from single inflations

Inflation

Inflation 0mmHg - 300mmHg

Automatic Inflation

Zero pressure check before inflation

Deflation

Automatic Deflation

Cuffs(Please state sizes and materials used)

Nylon Material Standard Type: 22 – 36 cm (Original),

Nylon Material Large: 35 – 44 cm (Optional) Nylon Material Universal: 22 – 44 cm (Optional)

Sensors

US9111 Resistance Type Pressure Sensors

Measurement Records

Memory Capacity: 120 memories x 2 users

Measurements other than Blood Pressure

N/A

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Device Equivalence Evaluation Form

Buttons/Switches	Buttons/Switches
Power	Power
Start/Stop (① Symbol)	User 1 ($\stackrel{\circ}{\sim}$ 1 Symbol)
	User 2 ($\stackrel{\circ}{\sim}$ 2 Symbol)
Measurement Records	
Memory 1 (M1 Symbol)	Measurement Records User 1 (
Memory 2 (M2 Symbol)	
	User 2 ($\stackrel{\circ}{\cong}$ 2 Symbol)
Function	Function
Start/Stop (Clock (Symbol) - Set Clock Mode
Memory (M1 /M2 Symbol) - Enter Memory Mode	User 1 ($\stackrel{\circ}{\sim}$ 1 Symbol) - Enter User 1 Memory Mode
	User 2 ($\stackrel{\circ}{\sim}$ 2 Symbol) - Enter User 2 Memory Mode
Analysis	Analysis
N/A	N/A
Event Marking N/A	Event Marking
N/A	N/A
Communication	Communication
Memory (M1 /M2 Symbol) - starting BLE transmission	N/A
Disales (Cours ale la disease es	
Display/Symbols/Indicators Preparation	Display/Symbols/Indicators
Start to inflate	Preparation Start to inflate
Zero pressure check used	Zero pressure check used
•	Zero pressure check useu
Measurement Procedure	Measurement Procedure
During Measurement: BP Level, Heartbeat and (icon	During Measurement: BP Level and Heartbeat
Post Measurement	Post Measurement
SBP, DBP and Pulse	SBP, DBP and Pulse
Measurement error: E1, E2, E3, E4, E5 and E6	Measurement error: E1, E2, E3, E4, E5 and E6
Memory-Zone mean (A symbol)	Memory-Zone mean (A symbol)
7- day morning memory-zone mean (AM symbol)	7- day morning memory-zone mean (AM symbol)
7- day evening memory-zone mean (PM symbol)	7- day evening memory-zone mean (PM symbol)
WHO blood pressure classification scale (WHO Guidelines 1999)	WHO blood pressure classification scale (WHO Guidelines 1999)
Irregular heartbeat (IHB) detection and indication	Irregular heartbeat (IHB) detection and indication

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Device Equivalence Evaluation Form

	Measurement Records	Measurement Records
	Memory Capacity: 60 memories x 2 users	Memory Capacity: 120 memories x 2 users
	Date and Time	Date and Time
	Date and Time	Date and Time
	Date and Time (During memory recall and measuring)	Date and Time (During memory recall)
	Algorithms Averages and Differences Memory Zone Means	Algorithms Averages and Differences Memory Zone Means
	Diagnostic WHO blood pressure classification scale (WHO Guidelines 1999) Irregular heartbeat (IHB) detection	Diagnostic WHO blood pressure classification scale (WHO Guidelines 1999) Irregular heartbeat (IHB) detection
Comparable Criteria	Casing Power Alkaline Battery (DC 6V 600mA, LR06 (AA) 1.5V x 4 pcs) Battery Life ~ 500 measurements	Casing Power Alkaline Battery (DC 6V 600mA, LR06 (AA) 1.5V x 4 pcs) Battery Life ~ 500 measurements
	Display/Symbols/Indicators Preparation Start to inflate Zero pressure check used	Display/Symbols/Indicators Preparation ▲ Start to inflate ▼ Zero pressure check used

Comments		
Recommendation	Recommended	
Date	November 2021	

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