

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.

I	Daisuke Nozaki, Name of a Company Director	a Director of	Omron Healthcare Europe B.V., Company name
he	reby state that there are no differences that will aff	ect blood press	sure measuring accuracy between

ure measuring accuracy between the

Maker* Omron Healthcare Co., Ltd. Address 53, Kunotsubo, Terado-cho, Muko, Kyoto 617-0002 Japan Manufacturer^b Address Omron Healthcare Co., Ltd. 53, Kunotsubo, Terado-cho, Muko, Kyoto 617-0002 Japan Brand^c Model

Omron HBP-1100 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* Omron Healthcare Co., Ltd. Address 53, Kunotsubo, Terado-cho, Muko, Kyoto 617-0002 Japan Manufacturer Address Omron Healthcare Co., Ltd. 53, Kunotsubo, Terado-cho, Muko, Kyoto 617-0002 Japan Brand⁶

Model HBP-1300 Omron Existing validated blood pressure measuring device.

which has previously passed the ESH2010 protocol, the results of which were published as follows:

dablEducational Trust; 2014 May 22. 4 p. Available from: http://www.dableducational.org/Publications/2014/ESH-IP 2010 Validation of Omron HBP-1300.pdf

Full reference

The only differences between the devices involve the following components:

Tick one box for each item 1-18.

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 ^g 🔀
	16	Communication Facilities	Yes 🔲	No 🔲	N/A ^g 🖂
	17	Power Supply	Yes 🖂	No 🔲	
	18	Other Facilities	Yes 🗌	No 🖂	N/A ^g

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

Fax + 353 1 278 3835

Provide the name and address of the actual maker of the device. Notes:

- Provide the name and address of the legal manufacturer of the device, even if it is the same as that of the maker,
- Provide the name of the brand under which it is sold, even if it is the same as that of the manufacturer or maker.
- 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.
- Only tick N/A (Not Applicable) if neither device measures blood pressure using the auscultatory method.
- Only tick N/A (Not Applicable) if neither device provides printing, communication or other facilities, as appropriate.

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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) The model number is changed to HBP-1100 (HBP-1100-E) from HBP-1300 (HBP-1300-E).
- 10) [Power On/OFF] button, [STRAT/STOP] button and [Auscultation] button are added to HBP-1100.

There are no [MODE] button, Right-POINTING TRIANGLE and Left-POINTING TRIANGLE button, and [START/STOP] button (Power ON/OFF) on HBP-1100.

11) Zero indicater icon and Battery replacement icon are added to HBP-1100.

There are no Memory icon, Battery charge level icon, Charge icon, and Inflation setting icon on HBP-1100

- 13) There is no function of setting initial inflation pressure value on HBP-1100.
- 14) There is no memory storage function on HBP-1100.
- 17) There is no rechargeable battery on HBP-1100.

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

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 device for which equivalence is being sought

An image of the screen layout of validated device*

An image of the screen layout of the device for which equivalence is being sought

X

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 Company Stamp/Seal

Name Daisuke Nozaki

Date 23 May 2014

Signature of Witness

1

Name Tomohiro Kukita

Address 23 May 2014

OMRON HEALTHCARE EUROPE BV

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



Device Equivalence Evaluation Form

Comparison of the Omron HBP-1100 with the Omron HBP-1300

Devices	Omron HBP-1100		Omron HBP-1300	
Pictures Omron Pictures		omron M ************************************		
Display	888 888 888 888		888 888 	
Validation			ESH 2010	
Device 1 Criteria				
Same Criteria	Measurement Accuracy BP accuracy ± 3 mmHg Pulse accuracy ± 5% Calibration facility Method Oscillometric measurement method SBP 60 mmHg - 250 mmHg, DBP 40 mmHg - 200 mmHg Pulse 40 bpm - 200 bpm Manually initiated measurements Measurements are from single inflations Press button to note SBP & DBP (Auscultation mode)	1, 5 1, 5 18 1, 5 1, 5, 7, 8 1, 5, 8 13 13	Measurement Accuracy BP accuracy ± 3 mmHg Pulse accuracy ± 5% Calibration facility Method Oscillometric measurement method SBP 60 mmHg - 250 mmHg, DBP 40 mmHg - 200 mmHg Pulse 40 bpm - 200 bpm Manually initiated measurements Measurements are from single inflations Press button to note SBP & DBP (Auscultation mode)	1, 5 1, 5 18 1, 5 1, 5, 7, 8 1, 5, 8 13 13

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Device Equivalence Evaluation Form

Devices	Omron HBP-1100		Omron HBP-1300	
Same Criteria	Measurement Inflation		Measurement Inflation	
	Inflation 0 mmHg – 300 mmHg	1, 5, 7	Inflation 0 mmHg – 300 mmHg	1, 5, 7
	Automatic Inflation	-, <i>3</i> , <i>7</i>	Automatic Inflation	7
	Manual Inflation option	, 7	Manual Inflation option	7
	Zero pressure check before inflation	, 7	Zero pressure check before inflation	7
	Deflation	,	Deflation	,
	Automatic Deflation	8	Automatic Deflation	8
	Cuffs		Cuffs	
	Extra Large (Arm circ. 42 to 50 cm) (Optional) GS CUFF XL	6	Extra Large (Arm circ. 42 to 50 cm) (Optional) GS CUFF XL	6
	Large (Arm circ. 32 to 42 cm) (Optional) GS CUFF L	6	Large (Arm circ. 32 to 42 cm) (Optional) GS CUFF L	6
	Medium (Arm circ. 22 to 32 cm) GS CUFF M	6	Medium (Arm circ. 22 to 32 cm) GS CUFF M	6
	Small (Arm circ. 17-22 cm) (Optional) GS CUFF S	6	Small (Arm circ. 17-22 cm) (Optional) GS CUFF S	6
	Extra Small (Arm circ. 12-18 cm) (Optional) GS CUFF SS	6	Extra Small (Arm circ. 12-18 cm) (Optional) GS CUFF SS	6
	Display/Symbols/Indicators		Display/Symbols/Indicators	
	Preparation		Preparation	
	Auscultation mode icon	11, 14	Auscultation mode icon	11, 14
	Measurement Procedure		Measurement Procedure	
	Manual Inflation	11	Manual Inflation	11
	During Measurement: BP Level & Heartbeat Post Measurement	11	During Measurement: BP Level & Heartbeat Post Measurement	11
	SBP, DBP and Pulse	11	SBP, DBP and Pulse	11
	Measurement error E1, E2, E3 & E9	11	Measurement error E1, E2, E3 & E9 + alarm LED	11
	Technical Alarm Condition error (Flashing measurement)	11	Technical Alarm Condition error (Flashing measurement)	11
	Body movement error ('"' ↔ == symbol)	3, 11, 13, 18	Body movement error ('"' ↔ == symbol)	3, 11, 13, 18
	Irregular heartbeat	11, 13, 18	Irregular heartbeat	11, 13, 18
	Algorithms	11, 10, 10	Algorithms	11, 10, 10
	Diagnostic		Diagnostic	
	Irregular heartbeat detection	13	Irregular heartbeat detection	13
	Body movement error detection	3, 13	Body movement error detection	3, 13
	Casing		Casing	
	Display		Display	
	Segment LCD	10	Segment LCD	10

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Device Equivalence Evaluation Form

Devices	Omron HBP-1100		Omron HBP-1300		
Comparable Criteria	Buttons/Switches		Buttons/Switches		
	Power		Power		
	On/Off (Power Label)	10	On/Off with Start/Stop (Start/Stop Label)	10	
	Start/Stop (Start/Stop Label)	10			
	Function		Function		
	Auscultation mode	10	Backward & Forward	10	
			Mode	10	
	Display/Symbols/Indicators		Display/Symbols/Indicators		
	Preparation		Preparation		
	Zero pressure check (bar and OK)	11, 14	Zero pressure check (🛮 / 🗓)	11, 14	
	Post Measurement		Post Measurement	,	
	Measurement error E1, E2, E3 & E9	11	Measurement error E1, E2, E3 & E9 + alarm LED	11	
	Power		Power		
	Low battery	11, 17	Full, Low, Exhausted, Charging & Charged battery	11, 17	
	Power error E40	11	Power error E40, E41 & E42 + alarm LED	11	
	Casing		Casing		
	Display		Display		
	Single screen display	10	Dual screen display	10	
	Power		Power		
	4 "AA" batteries ~ 200 measurements	17	Rechargeable battery pack	17	
	AC adapter (S 60240HW5SW)	17	AC adapter (ADAPTER-E1600/ ADAPTER-UK1600)	17	
Device 2 Criteria			Measurement		
			Inflation		
			Optional inflation target pressures	7	
			Measurement Records		
			Memory: 1 measurement (last measurement)	14	
			Display/Symbols/Indicators		
			Preparation		
			Inflation target selection x 4	11	
			Measurement Records		
			Memory icon	11	
			Casing		
			Power Automatic switch off when not used for F or 10 min	4=	
			Automatic switch-off when not used for 5 or 10 min Features	17	
			Wall mount kit (Optional) WMKIT-1300	10	

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Device Equivalence Evaluation Form

Comments	Both of these devices are intended for professional use. The main difference is that the HBP-1100 does not have a facility to select one set target pressures (220 mmHg, 250 mmHg or 280 mmHg). The HBP-1300 also stores the last measurement and has a selectable autor stitch-off facility. The HBP-1300 uses a battery pack and has extra error codes relating to that. It also lights an LED whenever there is an error between the professor of the profess	
Recommendation	Equivalence is Recommended	
Date	27 May 2014	

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