Declaration of Equivalence Form

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE

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

SECTION A - Please complete all items.

I Andre v Name of a	r an Gils, Company Director		a Director of Omron Healthcare Europe B.V., Company name
hereby stat	e that there are no differences th	at will af	fect blood pressure measuring accuracy between the
Maker ^a	Omron Healthcare Man. Vietnam Co., LTD	Address	Binh Duong Province, Vietnam
Manufacturer ^b	Omron Healthcare Co., Ltd.	Address	53, Kunotsubo, Terado-cho, Muko, KYOTO, 617-0002 Japan
Brand ^c Blood pressure r	Omron measuring device for which validation is claimed.	Model ^d If alternativ	X4 Smart (HEM-7155T-ESL) e model names are used, include all.
blood press	sure measuring device and the vali	dated bl	ood pressure measuring device
Maker ^a	Omron Healthcare Man. Vietnam Co., LTD	Address	Binh Duong Province, Vietnam
Manufacturer ^b	Omron Healthcare Co., Ltd.	Address	53, Kunotsubo, Terado-cho, Muko, KYOTO, 617-0002 Japan
Brand ^c	Omron	Model ^d	M6 Comfort (HEM-7321-E)

Existing validated blood pressure measuring device.

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

dablEducational Trust; 2014 Jan 22. 4 p. Available from: ESH-IP 2010 Validation of Omron M6 Comfort (HEM-7321-E).pdf

Full reference

Notes:

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/Aª 🔲
	2	Algorithm for Auscultatory Measurements	Yes 🗌		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.

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.

e 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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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.

In an attached document. DET9 Form.

SECTION C	Please check that the following are included with the application	
	A manual for the validated device	\boxtimes
	A manual for the device for which equivalence is being sought	\boxtimes
	Completed DET9 Form	\boxtimes
	An image of the device for which equivalence is being sought	\boxtimes
	An image of the screen layout of validated device*	\boxtimes
	An image of the screen layout of the device for which equivalence is being sought*	\boxtimes
	* Screen layouts shown complete, and without obscuring labels or lines, in manuals need not be included so	eparately.

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	Lucia Prada	OMRON HEALTHCARE EUROPE BV
Date	16 September, 2019	Scorpius 33 NL-2132 LR Hoofddorp
Signature of Witness	Mulos	P.O.BOX 2050 NL-2130 GL Hoofddorn
Name	Hideki Kondo	TEL +31-23 5544700 FAX +31-23 5544701
Address	16 September, 2019	170(101-20004470)

Comparison of the Omron X4 Smart (HEM-7155T-ESL) with the Omron M6 Comfort (HEM-7321-E)

Devices – Item 9	Omron X4 Smart (HEM-7155T-ESL)	Omron M6 Comfort (HEM-7321-E)
Pictures	Concordination of the second s	CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL CONROL
Display Image		
Validation	Equivalence	ESH 2010
Category	Upper Arm Devices for Self-measurement of Blood Pressure	Upper Arm Devices for Self-measurement of Blood Pressure
Casing – Item 10	Casing Dimensions Approximately 105 mm (w) × 85 mm (h) × 152 mm (l) (not including the Arm cuff) Buttons/Switches Power On/Off with START/STOP	Casing Dimensions Approximately 124 mm (w) × 90 mm (h) × 161 mm (l) (not including the Arm cuff) Buttons/Switches Power On/Off with START/STOP

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	Measurement Records	Measurement Records
	Memory	Memory
	Functions	Functions
	Back/Forward	Back/Forward
	User ID select	User ID select
		Date/Time setting
		Weekly average
	Communication	weekiy average
	Bluetooth button	
Display – Item 11	Display/Symbols/Indicators	Display/Symbols/Indicators
	Measurement Procedure	Measurement Procedure
	Deflation symbol	Deflation symbol
	Heartbeat symbol	Heartbeat symbol
	User ID symbol	User ID symbol
		During Measurement: Blood Pressure Level
	Post Measurement	Post Measurement
	SBP, DBP and Pulse	SBP, DBP and Pulse
	Date and Time	Date and Time
	Irregular heartbeat symbol	Irregular heartbeat symbol
	Cuff wrap guide symbol (OK, loose)	Cuff wrap guide symbol (OK, loose) and Cuff wrap OK lamp
	Body Movement error symbol	Body Movement error symbol
	Measurement error "E1 E2 E3 E4 E5 Er"	Measurement error "E1 E2 E3 E4 E5 Er"
	Power	Power
	Battery symbol (low, depleted)	Battery symbol (low, depleted)
	Measurement Records	Measurement Records
	Memory symbol	Memory symbol
	Memory recall number (replaces pulse rate momentarily)	Memory recall number (replaces pulse rate momentarily)
	Date and Time	Date and Time
	Date and Time (During memory recall)	Date and Time (During memory recall)
	Function	Function
	Blood pressure level symbol	Blood pressure level indicator
	Average value symbol	Average value symbol
		Morning average symbol
		Evening average symbol
		Blood pressure colour indicator
		Morning hypertension symbol
	Communication	
	Bluetooth ON symbol	
	Bluetooth OFF symbol	
	Sync symbol	
	(Flashes/appears when data needs to be transferred because the stored memory is either	
	almost, or completely full)	
	Bluetooth pairing/transferring indicator	
	Bluetooth connection error "Err"	
Carrying/Mounting	Carrying/Mounting Facilities	Carrying/Mounting Facilities
Facilities – Item 12	Storage Case	Storage Case
		1

Software other than Algorithm Averages and Differences Average (Last 3 measurements value within 10 min)		Software other than Algorithm Averages and Differences	
5		5 <i>J</i> = = = = = = = = = = = = = = = = = = =	
		Average (Last 3 measurements value within 10 min)	
		Morning/Evening Weekly Average	
Diagnostic		Diagnostic	
Irregular heartbeat detection		Irregular heartbeat detection	
Blood Pressure classification		Blood Pressure classification	
	Bluetooth		
Number of stored measurements		Number of stored measurements	
		-	
Measurement		Measurement	
			1,5
	1,5		1,5
			1,5
	13		13
-		5	
			1,5,7,8
		5	1,5,7,8
5		5	1,5,7,8
Pulse measurement 40 to 180 beats / min.	1,5,7,8	Pulse measurement 40 to 180 beats / min.	1,5,7,8
Inflation		Inflation	
Inflation 0 to 299 mmHg	1,5,7	Inflation 0 to 299 mmHg	1,5,7
Automatic Inflation	7	Automatic Inflation	7
Deflation		Deflation	
Automatic Deflation	8	Automatic Deflation	8
Cuffs		Cuffs	
Arm Cuff HEM-FL31 (Arm circumference 22 cm to 44 cm) Type BF	6	Arm Cuff HEM-FL31 (Arm circumference 22 cm to 44 cm) Type BF	e
Sensors		Sensors	
The electric pressure sensor	5	The electric pressure sensor	5
Measurements other than Blood Pressure		Measurements other than Blood Pressure	
Pulse 40 to 180 beat / min.	1,5,8	Pulse 40 to 180 beat / min.	1,5,8
Display/Symbols/Indicators		Display/Symbols/Indicators	
	11		11
			11
-	11	-	1.
	11		11
,			11
			11
			11
	Functions Correct cuff wrapping detection Body movement error detection Communication The data (measurement result of blood pressure and pulse rate) transfer via Number of stored measurements 60 measurement per user Measurement Accuracy Blood Pressure accuracy ± 3 mmHg Pulse accuracy ± 5% Method Oscillometric measurement method Manually initiated measurements Ranges Cuff Pressure range 0 to 299 mmHg Blood Pressure measurement SYS 60 to 260 mmHg Blood Pressure measurement DIA 40 to 215 mmHg Pulse measurement 40 to 180 beats / min. Inflation Inflation Inflation Deflation Automatic Inflation Deflation Automatic Deflation Cuffs Arm Cuff HEM-FL31 (Arm circumference 22 cm to 44 cm) Type BF Sensors The electric pressure sensor Measurements other than Blood Pressure	Functions Correct cuff wrapping detection Body movement error detection Communication The data (measurement result of blood pressure and pulse rate) transfer via Bluetooth Number of stored measurements 60 measurement per user Measurement Accuracy Blood Pressure accuracy ± 3 mmHg Pulse accuracy ± 5% Oscillometric measurement method Oscillometric measurement method Oscillometric measurement SYS 60 to 260 mmHg Blood Pressure range 0 to 299 mmHg Cuff Pressure measurement SYS 60 to 260 mmHg Pulse measurement 40 to 180 beats / min. Inflation Inflation Inflation 0 to 299 mmHg Inflation Inflation Automatic Inflation Orifs Arm Cuff HEM-FL31 (Arm circumference 22 cm to 44 cm) Type BF 6 Sensors The electric pressure sensor Measurement Procedure Heartbeat symbol Heartbeat symbol Inorg Measurement: Blood Pressure Level Post Measurement: Biod Pressure meat symbol <	Functions Functions Correct cuff wrapping detection Body movement error detection Body movement error detection Correct cuff wrapping detection Detecting measurement result of blood pressure and pulse rate) transfer via Bluetooth Number of stored measurements Number of stored measurements 100 measurements 60 measurements per user 100 measurements Measurement Accuracy Blood Pressure accuracy ± 3 mmHg 1,5 Pulse accuracy ± 5% 1,5 Method Oscillometric measurement method Oscillometric measurement method 1,5 Manually initiated measurements 13 Ronges Cuff Pressure range 0 to 299 mmHg Cuff Pressure measurement SYS 60 to 260 mmHg 1,5,7,8 Blood Pressure measurement SYS 60 to 260 mmHg 1,5,7,8 Blood Pressure measurement SYS 60 to 205 mmHg 1,5,7,8 Pulse measurement 40 to 130 beats / min. 1,5,7,8 Blood Pressure measurement 51% 60 to 255 mmHg 1,5,7,8 Blood Pressure measurement 40 to 120 beats / min. 1,6,7,8 Blood Pressure measurement 40 to 120 beats / min. 1,6,7,8 Blood Pressure measurement 1,60 to 229 mmHg 1,5,7,8

Power		Power	
Battery symbol (low, depleted)	11	Battery symbol (low, depleted)	11
Software other than Algorithm		Software other than Algorithm	
Diagnostic		Diagnostic	
Irregular heartbeat detection	13	Irregular heartbeat detection	13
Functions		Functions	
Correct cuff wrapping detection	13	Correct cuff wrapping detection	13
Body movement error detection	13	Body movement error detection	13
Power Supply		Power Supply	
Power		Power	
4 "AA" batteries	17	4 "AA" batteries	17
AC adapter (HHP-CM01 / HHP-BFH01)	17	AC adapter (HHP-CM01 / HHP-BFH01)	17

Comments	
Recommendation	Recommended
Date	September 2019