

Declaration of Equivalence Form

a Director of OMRON Healthcare Europe B.V.,

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.

Existing validated blood pressure measuring device.

1 Tomohiro Kukita,

Name or a C	ompany birector		Company name		
hereby state	e that there are no differences tha	t will aff	ect blood pressure measuring accuracy between the		
Maker*	OMRON Healthcare Co., Ltd.	Address	53 Kunotsubo, Terado-cho, Muko, Kyoto 617-0002, Japan		
Manufacturer ^b	OMRON Healthcare Co., Ltd	Address	53 Kunotsubo, Terado-cho, Muko, Kyoto 617-0002, Japan		
Brand^e Blood pressure m	OMRON leasuring device for which validation is claimed.	Model^d If alternative	780-BT (HEM-7081-ITE) e 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 ^b	OMRON Healthcare Co., Ltd.	Address	53 Kunotsubo, Terado-cho, Muko, Kyoto 617-0002, Japan		
Brand ^c	OMRON	Model ^d	M7 (HEM-780-E)		

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

Andrew Colemana, Stephen Steela, Paul Freemana, Annemarie de Greeffb, Andrew Shennanb. Validation of the Omron M7 (HEM-780-E) oscillometric blood pressure monitoring device according to the British Hypertension Society protocol. Blood Pressure Monitoring 2008, Vol 13 No 1; 49-54

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 [®] 🔲
	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.

Notes:	а	Provide th	e name	and	address	of th	e actua	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

SECTION D

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. Model name 780-BT (HEM-7081-ITE)
- 10. No start button, No on/off button, No date and time set button, O/I Start button, User ID selection switch, Bluetooth upload button, Set button.
- 11. No Average value symbol, No inflation symbol, User ID(A/B) and guest symbol, Date/Time display and movement error symbol and irregular heartbeat symbol. The bluetooth upload symbol. The bluetooth upload symbol blinks and the unit starts transferring the data. The bluetooth result symbol will blink when the pairing result. The DATA/FULL symbol is not displayed when only 0 to 66 measurements results are stored, or if the results have already been sent (when 67 or more results are stored).
- 13. No function of Average value, Movement error and irregular heartbeat detection.
- 14. 84 memories for each user (A and B).
- 16. Includes the bluetooth communication.

ECTION 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
	An image of the validated device	\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 separately.

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 Tomohiro Kukita

Date 2 April 2013
Signature of Witness

Name Nozaki Daisuke

Address Scorpius 33, 2132 LR Hoofddorp, The Netherlands

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Comparison of the Omron 708-BT (HEM-7081-ITE) with the Omron M7 (HEM-780-E)

Devices	Omron 708-BT (HEM-7081-ITE)	Omron M7 (HEM-780-E)
Pictures	OMNON SYST BLA PULL ST PUL	TEBY OF THE STATE
Display	388 B \$ 188 OK \$ DATA FULL	388 388 MANG 188 38:88
Validation		BHS AAMI
Device 1 Criteria	Buttons/Switches Measurement Records User ID Slider 10 Communication Bluetooth 10 Display/Symbols/Indicators Post Measurement Body movement error 3, 11, 13, 18 Irregular heartbeat 11, 13, 18 Measurement Records Memory recall number (Replaces pulse rate momentarily) 11 User (A, B or G [guest]) 11 Communication Bluetooth connection 11, 16	
	Bluetooth transmission reminder (<i>Data Full</i>) 11, 16	

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Device Equivalence Evaluation Form

Devices	Omron 708-BT (HEM-7081-ITE)	Omron M7 (HEM-780-E)		
Device 1 Criteria (continued)	Display/Symbols/Indicators (continued) Communication (continued) Bluetooth transmission result (OK or Err) Algorithms Diagnostic			
	Irregular heartbeat detection Body movement error detection	13 3, 13		
Same Criteria	Measurement Accuracy BP accuracy ± 3 mmHg	1, 5	Measurement Accuracy BP accuracy ± 3 mmHg	1, 5
	Pulse accuracy ± 5% Method	1, 5	Pulse accuracy ± 5% Method	1, 5
	Oscillometric measurement method Pulse 40 bpm -180 bpm	1, 5 1, 5, 8	Oscillometric measurement method Pulse 40 bpm -180 bpm	1, 5 1, 5, 8
	Manually initiated measurements Measurements are from single inflations Inflation	13 13	Manually initiated measurements Measurements are from single inflations Inflation	13 13
	Inflation 0 mmHg – 299 mmHg	1, 5, 7	Inflation 0 mmHg – 299 mmHg	1, 5, 7
	Automatic Inflation Fuzzy Logic	7 7	Automatic Inflation Fuzzy Logic	7
	Press button if BP > 220 mmHg	7	Press button if BP > 220 mmHg	7
	Manually adjustable inflation pressure Deflation	7	Manually adjustable inflation pressure Deflation	7
	Automatic Deflation Sensors	8	Automatic Deflation Sensors	8
	Pressure sensor: capacitive Buttons/Switches Measurement Records	5	Pressure sensor: capacitive Buttons/Switches Measurement Records	5
	Memory × 2 Settings (Dury 17: 1) C. 1. Query 3	10	Memory × 2 Settings Ouery 3	10
	(Date/Time) Set ^{Query 3} Display/Symbols/Indicators Measurement Procedure	10	Date/Time set Query 3 Display/Symbols/Indicators Measurement Procedure	10
	Deflation symbol	11	Deflation symbol	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

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Device Equivalence Evaluation Form

Devices	Omron 708-BT (HEM-7081-ITE)		Omron M7 (HEM-780-E)	
Same Criteria (continued)	Display/Symbols/Indicators (continued) Date and Time		Display/Symbols/Indicators (continued) Date and Time	
(Date and Time	11	Date and Time	11
	Date and Time (During memory recall) Power	11	Date and Time (During memory recall) Power	11
	Low/Exhausted battery	11, 17	Low battery	11, 17
	Case		Case	
	Display		Display	
	Segment LCD	10	Segment LCD	10
	Power		Power	
	4 "AA" batteries ~ 300 measurements	17	4 "AA" batteries ~ 300 measurements	17
	AC adapter (Optional – R-Adapter 9997695-0)	17	AC adapter (Optional)	17
Comparable Criteria	Measurement		Measurement	
	Cuffs		Cuffs	0
	Single (Arm circ. 22 to 42 cm) (Comfort Cuff 9956685-4) Query 1	6	Single 150 mm × 582 mm (Circ. 22 to 42 cm) (HEM-CUFF	-P) ^{Query 1} 6
	Measurement Records		Measurement Records	
	Memory: 84 measurements × 2 users	14	Memory: 90 measurements	14
	Buttons/Switches		Buttons/Switches	
	Power		Power	
	On/Off with Start/Stop (O/I Start Label)	10	On/Off with Stop (O/I Label)	10
			Start	10
	Display/Symbols/Indicators		Display/Symbols/Indicators	
	Post Measurement		Post Measurement	
	Measurement error EE, E, E/E and E-25 Query 2 Measurement Records	11	Measurement error EE, E, E/E and $E_r^{Query 2}$	11
		4.4	Measurement Records	
	Memory icon	11	Memory "M" symbol	11
	Case Display		Case	
	Single screen display	10	Display	
	Power	10	Dual screen display	10
	Automatic switch-off when not used for 2 min	17	Power Automatic switch-off when not used for 5 min	17
	Automatic switch on when not asea for 2 min		Automatic switch-off when not used for 5 min	17
Device 2 Criteria			Measurement	
			Inflation Zoro procesure check before inflation	-
			Zero pressure check before inflation	7
			Display/Symbols/Indicators Preparation	
			Zero cuff pressure check	11, 13, 18
			Zero cuit pressure check	11, 13, 18

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Device Equivalence Evaluation Form

Devices	Omron 708-BT (HEM-7081-ITE)	Omron M7 (HEM-780-E)	
Device 2 Criteria (continued)		Measurement (continued) Measurement Procedure	
		Inflation symbol	11
		Post Measurement	
		Average "AVG" symbol	11, 13, 14
		Algorithms	
		Averages and Differences	
		Last 3 measurements mean	13

respective manuals, the cuff for the 708-BT (HEM-7081-ITE) is the Comfort Cuff 9956685-4, while that for the M7 (HEM-780-E) is the HEM-CUFF-P. Please explain this anomaly. Response These cuffs have no differences except cloth covers. The parts number difference comes from different cloth covers. Comment The explanation is accepted. Query Is the error code Er25 (Device error) in the 708-BT triggered for the same reasons as the error code Er (Abnormal memory function) in the M7? Response Yes, these indicate same error "device error". Comment The explanation is accepted Query According to the declaration, the 708-BT has "no date and time set button", as in the M7, but does have a "set button".						
Response These cuffs have no differences except cloth covers. The parts number difference comes from different cloth covers. Comment The explanation is accepted. Query Is the error code Er25 (Device error) in the 708-BT triggered for the same reasons as the error code Er (Abnormal memory function) in the M7? Response Yes, these indicate same error "device error". Comment The explanation is accepted Query According to the declaration, the 708-BT has "no date and time set button", as in the M7, but does have a "set button". However, from the manuals, the respective buttons appear to have identical functions. Why is a difference in buttons, as distinct from a difference in a button name, declared? Response The difference is only the name of the button. The function itself is same. We will correct the declaration if necessary. Comment The explanation is accepted; a new declaration is unnecessary. Though the styles of the two devices are different, that if the 708-BT (HEM-7081-ITE) is similar to other devices in the same family as the M7 (HEM-780-E). These too have the newer cloth covers for the cuffs. The main differences are the removal of the averaging feature and the introduction of the irregular heartbeat detection, body movement detection and a facility to transmit data via Bluetooth to a device set up to read the transmitted data. None of these features affects blood pressure measurement. The queries were adequately answered. Equivalence is recommended.	Queries	1	Query	The declaration firm indicates that there are no differences between the cuffs for the two devices. According to the respective manuals, the cuff for the 708-BT (HEM-7081-ITE) is the <i>Comfort Cuff 9956685-4</i> , while that for the M7 (HEM-780-E) is the <i>HEM-CUFF-P</i> . Please explain this anomaly.		
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Date 03/05/2013	Recommendation	The queries were adequately answered. Equivalence is recommended.				
	Date	03/05/2013				

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