

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2006

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

SECTION	I A - Ple	ease complete all items online.						
I			rector of Omror	Healthcare Europe B.V.				
hereby stat	e that the	nere are no differences that will affect blood p	pressure measuring accur	acy between the				
		Omron M6 Comfort (HEM-7221-E)	Č	•				
		Blood pressure measuring device for which validation is claimed	ı					
blood press	sure me	asuring device and the						
blood press published a	sure me as follov	asuring device, which has previously passed tws	the <u>International</u> protoco	ol, the results of which were				
		Belghazi J, El Feghali RN, Moussalem T,	Rejdych M, Asmar RG					
	Authors(s) Validation of four automatic devices for self-measurement of blood pressure according							
		to the International Protocol of the Europea	an Society of Hypertensi	on				
		Title Vascular Health and Risk Management Publication	Title Vascular Health and Risk Management 20					
		es between the devices involve the following elevant, both Yes and No should be left blank. Please provide details						
Part I	1	Algorithm for Oscillometric Measurements	s Yes □	No ⊠				
	2	Algorithm for Auscultatory Measurements	Yes □	No □				
	3	Artefact/Error Detection	Yes □	No ⊠				
	4	Microphone(s)	Yes □	No □				
	5	Pressure Transducer	Yes □	No ⊠				
	6	Cuff or Bladder	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 measure		No ⊠				
	15	Printing Facilities	Yes □	No □				
	16	Communication Facilities	Yes □	No □				
	17	Power Supply	Yes □	No 🗵				
	18	Other Facilities	Yes □	No ⊠				
Brief explar	nation c	f differences and further relevant details:						
10) The me	mory bu	atton and the LED for dual check system* are	added.					
11) The syn	ibol for	cuff wrapping guide** and the indicator for	blood pressure level are	added.				
		guide cuff wrapping and the function to chec	450					
*Main sense	or takes	the measurement, sub sensor checks if the de	evice works.					
**Informs t	o user i	f the cuff was incorrectly wrapped.						
		- T.F.						

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SECTION B - Complete all items, bar signatures and seal, online and print. Sign and seal it then send the original along with manuals for both devices to our address below.

Signature of Director

Name

Takefumi Nakanishi

Date

17 February 2010

Signature of Witness Name

Company Stamp/Seal

OMRON HEALTHCARE EUROPE B.V.

Kruisweg 577

NL-2132 NA Hoofddorp

P.O. Box 2150 NL-2130 GL Hoofddorp

Tel. +31 - 20 354 82 00

Fax +31 - 20 354 82 01

Address

Omron Healthcare Europe B.V.. Kruisweg 577, 2132NA Hoofddorp, The Netherlands

Tel + 353 1 278 0247 Fax + 353 1 278 3835



Comparison of the Omron M6 Comfort (HEM-7221-E) with the Omron M6 Comfort (HEM-7000-E)

Devices	Omron M6 Comfort (HEM-7221-E)	Omron M6 Comfort (HEM-7000-E)			
Pictures	OMBON TO SERVICE OF THE SERVICE OF T	22:18 22:18			
Display	38/88	H 388 1 88 0 1 88 0			
Validation		ESH			
Device 1 Criteria	Measurement Sensors Pressure sensor: 2 nd sensor for dual check 5 Display/Symbols/Indicators Preparation Correct cuff wrapping indicator 11, 13, 18				
	Measurement Records Memory recall number (Replaces pulse rate momentarily) Settings				
	Sensor cross check (LED) 5, 18 Algorithms Parameter Settings				
	Correct cuff wrapping detection 13 Sensor cross check 5, 18				

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Device Equivalence Evaluation Form

Same Criteria	Measurement	Measurement					
	Accuracy	Accuracy					
	BP accuracy ± 3 mmHg	1, 5	BP accuracy ± 3 mmHg	1, 5			
	Pulse accuracy ± 5%	1, 5	Pulse accuracy ± 5%	1, 5			
	Method		Method				
	Oscillometric measurement method	1, 5	Oscillometric measurement method	1, 5			
	Pulse 40 bpm -180 bpm	1, 5, 8	Pulse 40 bpm -180 bpm	1, 5, 8			
	Manually initiated measurements	13	Manually initiated measurements	13			
	Measurements are from single inflations	13	Measurements are from single inflations	13			
	Inflation		Inflation				
	Inflation 0 mmHg - 299 mmHg	1, 5, 7	Inflation 0 mmHg - 299 mmHg	1, 5, 7			
	Automatic Inflation	7	Automatic Inflation	7			
	Fuzzy Logic	7	Fuzzy Logic	7			
	Press button if BP > 220 mmHg	7	Press button if BP > 220 mmHg	7			
	Manually adjustable inflation pressure	7	Manually adjustable inflation pressure	7			
	Deflation		Deflation				
	Automatic Deflation Cuffs	8	Automatic Deflation Cuffs	8			
	Single 152 mm × 600 mm (Arm circ. 22 to 42 cm)	6	Single 152 mm × 600 mm (Arm circ. 22 to 42 cm)	6			
	Sensors	O	Sensors Sensors	U			
	Pressure sensor: capacitive	5	Pressure sensor: capacitive	5			
	Measurement Records	J	Measurement Records	J			
	Memory: 90 measurements	14	Memory: 90 measurements	14			
	Buttons/Switches		Buttons/Switches				
	Power		Power				
	On/Off with Start/Stop (O/I Start Label)	10	On/Off with Start/Stop (O/I Start Label)	10			
	Settings		Settings				
	Date/Time set	10	Date/Time set	10			
	Display/Symbols/Indicators Measurement Procedure		Display/Symbols/Indicators Measurement Procedure				
	Deflation symbol	11	Deflation symbol	11			
	During Measurement: BP Level & Heartbeat	11	During Measurement: BP Level & Heartbeat	11			
	Post Measurement	11	Post Measurement	11			
	SBP, DBP and Pulse	11	SBP, DBP and Pulse	11			
	Average icon	11, 13, 14	Average icon	11, 13, 14			
	Body movement error	3, 11, 13, 18	Body movement error	3, 11, 13, 18			
	Irregular heartbeat	11, 13, 18	Irregular heartbeat	11, 13, 18			
	Measurement Records	11, 10, 10	Measurement Records	11, 13, 10			
	Memory icon	11	Memory icon	11			

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Device Equivalence Evaluation Form

Web link			http://www.	
Device 2 Criteria				
	Power Automatic switch-off when not used for 2 min	17	Power Automatic switch-off when not used for 5 min	17
	Case	11, 13	Case	11, 13
	Measurement error E 1, E2, E3, E4, E5 and Er Query 1 Hypertension (Indicator strip)	11 11, 13	Measurement error EE/0, E and E/E Query 1 Hypertension (Blinking heartbeat)	11 11, 13
	Display/Symbols/Indicators Post Measurement		Display/Symbols/Indicators Post Measurement	
	Up and down	10		
	Memory Settings	10	Memory × 2	10
	Measurement Records		Measurement Records	
Comparable Criteria	Buttons/Switches		Buttons/Switches	
	AC adapter (Optional)	17	AC adapter (Optional)	17
	4 "AA" batteries ~ 1000 measurements	17	4 "AA" batteries ~ 1500 measurements	17
	Segment LCD Power	10	Segment LCD Power	10
	Single screen display	10	Single screen display	10
	Display		Display	
	Case	5, 15	Case	5, 15
	Body movement error detection	3, 13	Body movement error detection	3, 13
	Irregular heartbeat detection	13	Irregular heartbeat detection	13
	135 / 85 mmHg thresholds	13	135 / 85 mmHg thresholds	13 13
	Diagnostic Normotension/Hypertension	13	Diagnostic Normotension/Hypertension	12
	Last 3 measurements (within 10 min of each other) mean	13	Last 3 measurements (within 10 min of each other) mean	13
	Algorithms Averages and Differences		Algorithms Averages and Differences	
	Low battery	11, 17	Low battery	11, 17
	Power		Power	
	Date and Time (During memory recall)	11	Date and Time (During memory recall)	11
	Date and Time Date and Time	11	Date and Time Date and Time	11

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Device Equivalence Evaluation Form

Comments	Query 1 There appear to be some differences in the error codes (apart from the extra features) which would not be expected if there were no algorithm changes. In the list, a slash indicates a line break where the error code is on two lines. Please explain.									
	Response 1 Regarding Chart 2, M6 Comfort (7000) error code E had subdivide to M6 Comfort (7221) error code E1, E4 and E5. EE/0 is as same as E2. E/E is as same as E3. The background is explained below. For M6 Comfort (7000), EE/0 is as same as EE, 0 means 0mmHg, and this has the error code Er, but not described in manual. We consider there is no change in the error codes and algorithms among these devices. For our software, error codes consist of several error judgment conditions. We had a limitation to show enough information on the display in the past due to technical restriction on hardware. For now, the hardware performance has advanced to display more error code. Therefore, we reconsidered the constitution of the error judgment conditions and changed the expression to make it more easy to understand for users, starting from M6 (HEM-7211-E) and M6 Comfort (HEM-7221-E).									
	Chart 2 Error Codes									
		Model						1	1	
			M6 Comfort (7000)	EE/0	E	E/E				
			M6 Comfort (7221)	E1	E2	E3	E2	E5	Er	
				EE/	0		error	omfort (722 code E1 E2 E3 E4 E5	21)	
Recommendation	The queries v	e queries were adequately answered. Equivalence is recommended.								
Date	26/08/2010									

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