

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2006

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

	A - Pl	ease complete all items online.	
I		Takefumi Nakanishi Director of Company name	Omron Healthcare Europe B
hereby sta	te that t	here are no differences that will affect blood pressure r	neasuring accuracy between the
		Omron R6 (HEM-6000-E7) Blood pressure measuring device for which validation is claimed	
blood pres	sure me	easuring device and the	
		Omron R7 (HEM-637-IT) Existing validated blood pressure measuring device	
blood pres published		easuring device, which has previously passed the <u>Inter</u>	national protocol, the results of which
		Topouchian JA, El Assaad MA, Orobinskaia LV, E	
		the International Protocol of the European Society	
			006; 11: 165-171 ar Volume Pages
The only d	ifferenc	es between the devices involve the following compone	
		relevant, both Yes and No should be left blank. Please provide details on any differ	
Part I	1	Algorithm for Oscillometric Measurements	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 measurements	Yes □ No ⊠
	15	Printing Facilities	Yes □ No ⊠
	16	Communication Facilities	Yes ⊠ No □
		Darron Crossler	Yes □ No ⊠
	17	Power Supply	i es 🔲 — No ixi

- 5) The pressure sensor is replaced to a piezo electric sensor (NPS) from an electrostatic capacitive sensor (CPS), but the accuracy of blood pressure measurement is equivalent between NPS and CPS.
- 10) No "GRAPH" button, no two of "allow" buttons to select the setting and to view the graph display. No USB data communication port.
- 11) Segment LCD display instead of dot matrix LCD display, no graph display, no symbol of alarm function, includes the symbol of irregular heartbeat detection.
- 13) No graph display function, no alarm function, includes irregular heartbeat detection function, includes the memory average function (average of the latest 3 measurements).
- 16) No communication facilities.

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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 77, Meyer 20

Name Janet Meijer

Company Stamp/Seal

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Comparison of the Omron R6 (HEM-6000-E7) with the Omron R7 (HEM-637-IT)

Devices	Omron R6 (HEM-6000-E7)		Omron R7 (HEM-637-IT)	
Pictures	Image Omron R6 (HEM-6000-E)		OTRON (BLUSSIA) WHEEL STORMS 120 WHEEL STORMS	
Validation	image officer to (Fizza cost 2)		ESH	
Device 1 Criteria	Display/Symbols/Indicators			
	Measurement Procedure Irregular heartbeat	11, 13		
	Average	11, 13		
	Settings	11, 13		
	Right wrist	11		
	Algorithms			
	Averages			
	Last 3 measurements mean	13		
	Diagnostic Atrial fibrillation detection	12		
	Atrial fibrillation detection	13		
Same Criteria	Measurement Accuracy		Measurement 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	Pulse 40 bpm -180 bpm	1, 5
	Measurements are from single inflations	13	Measurements are from single inflations	13
	Manually initiated measurements	13, 14	Manually initiated measurements	13, 14
	Inflation		Inflation	
	Inflation 0 mmHg - 299 mmHg	1, 5, 7	Inflation 0 mmHg - 299 mmHg	1, 5, 7
	Automatic Inflation	7	Automatic Inflation	7

Devices	Omron R6 (HEM-6000-E7)		Omron R7 (HEM-637-IT)	
Same Criteria	Measurement		Measurement	
(Continued)	Deflation		Deflation	
	Automatic Deflation	8	Automatic Deflation	8
	Cuffs		Cuffs	
	Wrist circ. 13.5-21.5 cm	6	Wrist circ. 13.5-21.5 cm	6
	Sensors		Sensors	
	Wrist positioning sensor	13, 18	Wrist positioning sensor	13, 18
	Measurement Records		Measurement Records	
	Memory: 90 measurements	14	Memory: 90 measurements	14
	Buttons/Switches		Buttons/Switches	
	Measurement Records		Measurement Records	
	Memory	10	Memory	10
	Settings		Settings	
	Set	10	Set	10
	Display/Symbols/Indicators Measurement Procedure		Display/Symbols/Indicators Measurement Procedure	
	Deflation symbol	11	Deflation symbol	11
	Heartbeat symbol during deflation	11	Heartbeat symbol during deflation	11
	Wrist position – adjust and OK	11, 13, 18	Wrist position – adjust and OK	11, 13, 18
	Post Measurement		Post Measurement	
	SBP, DBP and Pulse	11	SBP, DBP and Pulse	11
	Date and Time		Date and Time	
	Date and Time	11	Date and Time	11
	Power		Power	
	Low battery	11, 17	Low battery	11, 17
	Algorithms		Algorithms	
	Parameter Settings		Parameter Settings	
	Right or left wrist	1	Right or left wrist	1
	Case		Case	
	Display		Display	
	Single screen display	10	Single screen display	10
	Power		Power	
	2 "AAA" batteries ~ 300 measurements	17	2 "AAA" batteries ~ 300 measurements	17
	Automatic switch-off when not used for 2 min	17	Automatic switch-off when not used for 2 min	17

Devices	Omron R6 (HEM-6000-E7)		Omron R7 (HEM-637-IT)	
Comparable Criteria	Measurement Sensors		Measurement Sensors	
	Pressure sensor: Piezoelectric semiconductor	5	Pressure sensor: Electrostatic capacitive semiconductor	5
	Buttons/Switches	J	Buttons/Switches	
	Power		Power	
	On/Off with Start/Stop (O/I Start Label)	10	On/Off with Start/Stop (O/I Label)	10
	Display/Symbols/Indicators		Display/Symbols/Indicators	
	Post Measurement		Post Measurement	
	Measurement error (E \checkmark , E height symbol \checkmark , E/E \checkmark , E onn)	11	Measurement error (E \checkmark , E HEIGHT \checkmark , E/E, E 0nn)	11
	Measurement Records		Measurement Records	
	Memory icon	11	Memory "M" symbol	11
	Case		Case	
	Display		Display	
	Segment LCD	10	Dot matrix LCD	10
Device 2 Criteria			Buttons/Switches	
			Settings	
			Forward	10
			Backward	10
			Analysis	
			Graph	10
			Display/Symbols/Indicators	
			Measurement Procedure	
			Inflation symbol	11
			Graph	11, 13
			Date and Time	
			Alarm reminder (2 alarms/day)	18
			Settings	
			Screen font size adjustment	11
			Case	
			Ports	16.10
			USB port, cable and PC software	16, 18
Web link	(HEM-6000-E)		(HEM-637-E2)	
	http://www.omron-healthcare.com/sitepreview.php?SiteID=234		http://www.omron-healthcare.com/sitepreview.php?SiteID=	-235

Comments	The Omron R6 (HEM-6000-E) was approved for equivalence to the Omron R7 on 17/12/2008. The Omron R6 (HEM-6000-E7) is identical to the HEM-600-E device except that the current pressure sensor (CPS), an electrostatic capacitive semiconductor type, is changed to a new pressure sensor (NPS), a piezoelectric semiconductor type. Omron supplied dabl®Educational with full details of tests carried out (in confidence), and a summary of these tests for circulation to the advisory board. Further clarification on a number of queries was requested and provided. Following a review of these documents, it was concluded that the change in sensor would not affect the accuracy of the device and equivalence was recommended and was approved by the board.
	<u>Original Comments</u>
	The R6 and R7 appear to differ only in the extra features provided.
	The forward and back control buttons in the R7 are mainly there to move between individual measurements in the graph though they are used when setting the date and time. As the R6 does not have a graph, these buttons are not needed; in the R6 and the Memory (Mem) and Set buttons have arrows beside them and they are used as "forward" and "back" buttons as necessary.
	The arm positioning and blood pressure measurement instructions are almost identical for both devices. They just differ in the display details. The segment display in the R6 also allows icons to be displayed more readily. The cuffs are the same.
Recommendation	Equivalence is approved.
Date	09/04/2010