

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2006

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

SECTION A - Please complete all items online.							
I		Takefumi Nakanishi Direct Name of a Company Director Company		Omron Healthca	are Europe B.V.		
hereby state that there are no differences that will affect blood pressure measuring accuracy between the							
		Omron M6 Comfort (HEM-7000-E)		× 10			
		Blood pressure measuring device for which validation is claimed					
blood press	ure me	asuring device and the					
		Omron M7 (HEM-780-E) Existing validated blood pressure measuring device			1		
blood press as follows	ure me	asuring device, which has previously passed the	BHS protocol	, the results of v	which were published		
		Andrew Coleman, Stephen Steel, Paul Freems	an, Annemarie	de Greeff and A	andrew Shennan		
		Authors(s) Validation of the Omron M7 (HEM-780-E) oscillometric blood pressure monitoring device					
		according to the British Hypertension Society	protocol				
		Title Blood Pressure Monitoring					
		Publication	Year Volume P	ages			
		es between the devices involve the following con elevant, both Yes and No should be left blank. Please provide details on a)			
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	28	Yes □	No □		
	13	Software other than Algorithm		Yes ⊠	No □		
	14	Memory Capacity/Number of stored measurer	ments	Yes □	No ⊠		
	15	Printing Facilities	S	Yes □	No □		
	16	Communication Facilities	8	Yes □	No ⊠		
	17	Power Supply		Yes □	No ⊠		
	18	Other Facilities		Yes □	No ⊠		
Brief explan	ation o	of differences and further relevant details:					
10) includes	1 Star	t button instead of 2 buttons (Power ON and Star	rt)				
11) includes	symbo	ol for Irregular Heartbeat detection, includes symbol for the indicator of Body movement, no sym	nbol for the ind	icator of Hypert	ension,		
		lar Heartbeat detection function, includes Hyper			udes Body		
movement e				c. idilotton, moi	acco Doug		

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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 21 Jul. 2008

Signature of Witness

Helen Demeny

Address

Name

Company Stamp/Seal

OMRON HEALTHCARE EUROPE B.V. !

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Comparison of the Omron M10-IT with the Omron M7

Devices	Omron M6 Comfort (HEM-7000-E)		Omron M7 (HEM-780-E)		
Pictures	THE THE STATE OF T		TER ON		
Validation			BHS		
Device 1 Criteria	Body movement error indicator Hypertension indicator Irregular heartbeat detection	3, 11, 13 11, 13 11, 13			
Same Criteria	Accuracy ± 3 mmHg BP 0 mmHg to 299 mmHg, Pulse 40-180 bpm Date/Time setting button 2 memory buttons (icon symbol) Last 3 measurements averages (icon symbol) Memory: 90 measurements	1, 5 1, 5, 7, 8 10 10, 11 13 14	Accuracy ± 3 mmHg BP 0 mmHg to 299 mmHg, Pulse 40-180 bpm Date/Time setting button 2 memory buttons (M symbol) Last 3 measurements averages (AVG symbol) Memory: 90 measurements	1, 5 1, 5, 7, 8 10 10, 11 13	
Comparable Criteria	Pressure detection by "capacitive" pressure sensor Cuff: 152 mm × 600 mm approx (Arm circ. 22 to 42 cm) O/I Start button Single screen display Deflation symbol Power: 4 "AA" batteries ~ 1500 measurements	5 6 10 10 11 17	Pressure detection by "electrostatic" pressure sensor Cuff 150 mm × 582 mm approx (Arm circ. 22 cm to 42 cm) O/I and Start buttons Two screen display Inflation and deflation symbols Power: 4 "AA" batteries ~ 300 measurements	5 6 10 10 11 17	
Device 2 Criteria					
Web link	http://www.omron-healthcare.com/sitepreview.php?SiteID=	<u>537</u>	http://www.omron-healthcare.com/sitepreview.php?SiteID=22	21	

Comments	1	The M6 Comfort is already validated according to the ESH protocol ¹ . This declaration is to for equivalence according to the BHS protocol.
	2	Pressure sensor: A query was sent to Omron concerning "capacitive" and "electrostatic" sensors when comparing the M10-IT to the M7.
		The pressure sensor in the M10-IT is described as "capacitive" whereas that of the M7 is described as "electrostatic". No references to these differences are made in the declaration form in which Item 5 (Pressure Transducer) is marked as indicating no differences between the devices.
		Their reply was accepted
		We can say that the sensor is completely same on both M10-IT and M7, though there are a bit different description in the instruction manuals. The sensor is "capacity" type, we normally say "Capacitive pressure sensor". We have put the "Electrostatic capacity pressure sensor" on the instruction manual of M7 accidentally. If this difference can not allow us to say that the pressure sensor is same, we are going to revise our description on M7 instruction manual immediately.
	3	Cuffs: Despite the slightly different descriptions in the manuals, the cuffs are described in the website as the ML ComfortCuff®. (ML stands for medium-large). It appears to be the same cuff.
	4	Batteries: Batteries appear to last 5 times longer in the M6 Comfort than in the M7. This may be due to improvements in battery technology reflected in the newer manual.
	Reference	
	1	Belghazi J, El Feghali RN, Moussalem T, Rejdych M, Asmar RG. Validation of four automatic devices for self-measurement of blood pressure according to the International Protocol of the European Society of Hypertension <i>Vascular Health and Risk Management</i> 2007; 3 (4):389-400
Recommendation	Equivalence is Recommended	
Date	26/08/2008	