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DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2006

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

SECTION	A - Plea	se complete all items online.						
I			Director of Company name	Omron Healthcan	e Europe B.V.			
hereby state	e that the	ere are no differences that will affect bloc	od pressure measurin	g accuracy between	en the			
	Omron M10-IT (HEM-7080IT-E) Blood pressure measuring device for which validation is claimed							
blood press	ure mea	suring device and the						
		Omron M7 (HEM-780-E) Existing validated blood pressure measuring device						
blood press	ure mea	suring device, which has previously passe	ed the BHS protoco	ol, the results of w	hich were published			
		Androvy Colomon Stocker Stock Devil	F	1- C C 1 A	1 01			
		Andrew Coleman, Stephen Steel, Paul Authors(s)						
		Validation of the Omron M7 (HEM-78)	0-E) oscillometric b	lood pressure mon	itoring device			
		according to the British Hypertension S	Society protocol					
		Title Blood Pressure Monitoring Publication	Year Volume	Pages				
The only differences between the devices involve the following components: (When a component is not relevant, both Yes and No should be left blank. Please provide details on any differences below.)								
Part I	1	Algorithm for Oscillometric Measurem		Yes □	No ⊠			
	2	Algorithm for Auscultatory Measurement		Yes \square	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 me	easurements	Yes ⊠	No □			
	15	Printing Facilities		Yes □	No 🗆			
	16	Communication Facilities		Yes ⊠	No 🗆			
	17	Power Supply		Yes □	No ⊠			
	18	Other Facilities		Yes ⊠	No 🗆			
Brief explan	nation of	differences and further relevant details:						
10) includes	s 1 Start eadings)	button instead of 2 buttons (Power ON a instead of 2 memory button, includes me						
11) includes includes err for 2 user, in	s symbo or symb ncludes	for Irregular Heartbeat detection, included of for the indicator of Body movement, no symbol for the high blood pressure in modern and Evening, includes symbol for Auto-regular transfer of the symbol for the symbol for Auto-regular transfer of the symbol for Auto-regular transfer of the symbol for Auto-regular transfer of the symbol for the symbol for Auto-regular transfer of the symbol for the symbol for Auto-regular transfer of the symbol for Auto-regular transfer of the symbol for the symbol for Auto-regular transfer of the symbol for Auto-regular transfer of the symbol for Auto-regular transfer of the symbol for the symbol for Auto-regular transfer of the symbol for Auto-re	o symbol for the informing, includes sym	lation status, inclubol for the weekly	des symbol			
measuremen	nts), incl	ction of weekly average in Morning and udes Irregular Heartbeat detection function ement error indicator						

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- 14) 84 x 2 user readings in memory instead of 90 readings
- 16) includes USB port
- 18) includes USB cable and PC software with CD-ROM for data download to PC

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 T. Nakou Company Stamp/Seal

Name Date

Takefumi Nakanishi

27 Nov. 2008

Signature of Witness

Name

Address

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Comparison of the Omron M10-IT with the Omron M7

Devices	Omron M10-IT (HEM-7080IT-E)		Omron M7 (HEM-780-E)		
Pictures	THO BE		TER ON THE PROPERTY OF THE PRO		
Validation			BHS (and ESH)		
Device 1 Criteria	USB port, cable and PC software Morning/Evening Average buttons and algorithms Weekly averages User ID switch Auto mode (3 continuous measurements) Irregular heartbeat detection Hypertension indicator Body movement error indicator Set button (Auto mode)	16, 18 10, 11, 13 11, 13 10 11 11, 13 11, 13 3, 11, 13			
Same Criteria	BP 0 mmHg to 299 mmHg, Pulse 40-180 bpm Cuff Accuracy ± 3 mmHg	1, 5, 7, 8 6 1, 5	BP 0 mmHg to 299 mmHg, Pulse 40-180 bpm Cuff Accuracy ± 4 mmHg	1, 5, 7, 8 6 1, 5	
Comparable Criteria	Memory: 84 measurements × 2 users Single screen display Memory button Start button Pressure detection by "capacitive" pressure sensor	11, 14 10 10 10 5	Memory: 90 measurements Two screen display Two memory buttons (previous/next) On and Start buttons Pressure detection by "electrostatic" pressure sensor	14 10 10 10 5	
Device 2 Criteria			Inflation status symbol	11	
Web link	http://www.omron-healthcare.com/sitepreview.php?Site	ID=538	http://www.omron-healthcare.com/sitepreview.php?SiteID=221		

Comments	The M10-IT has averaging and BP/Pulse warning features not available in the Omron M7. As these are calculated on already detected pressures, they have not affect the validation process.			
	Queries sent to Omron.			
	The technical data in both manuals were compared to each other. The pressure sensor in the M10-IT is described as "capacitive" whereas that of the M7 is described as "electrostatic". No references to this differences are made in the declaration form in which Item 5 (Pressure Transducer) is marked as indicating no differences between the devices. (Pressure transducer and pressure sensor are the same thing.)			
	Reply			
	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.			
	2) Body movement error detection is noted. This is declared under Item 13 (Software other than Algorithm) rather than Item 3 (Artefact/Error Detection) which is marked as indicating no differences between the devices.			
	Reply			
	Both M10-IT and M7 has completely same function on Item 3 (Artefact/Error Detection). Our "Body movement error" on M10-IT is the additional function on Item 3. M10-IT can show the error same as M7 in case there are some artefact during the measurement and M10-IT can show Body movement mark on its display in case it is estimated there are especially arm movement. This Body movement function can not give any factor to the measurement result. We have thought we should say "Body movement detection function" in the equivalent form.			
Recommendation	The issues raised have been adequately addressed. It is accepted that the pressure transducers are the same but given different names and that the "body movement detection" is a display feature on an existing artefact detection. Equivalence is therefore recommended.			
Date	21/01/2008			