

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2006

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

SECTION	A - Ple	ease complete all items online.						
I		Takefumi Nakanishi Director		Omron Healthcare Europe				
hereby stat	e that th	here are no differences that will affect blood pressi	ure measuring	g accuracy bet	tween the			
Omron M3 (HEM-7200-E)								
Blood pressure measuring device for which validation is claimed								
blood press	sure me	asuring device and the						
		Omron M3 Intellisense (HEM-7051-E) Existing validated blood pressure measuring device						
blood press published a	sure me is follo	asuring device, which has previously passed the \underline{I} ws	International	protocol, the	results of which			
		Asmar R, Khabouth J, Topouchian J, El Feghal	li R, Mattar J					
		Authors(s) Validation of three automatic devices for self-n		of blood press	sure according			
		to the International Protocol: The Omron M3 In	ntellisense (H	EM-7051-E),				
		the Omron M2 Compact (HEM 7102-E), and the	he Omron R3	-I Plus (HEM	6022-E)			
		Title Blood Pressure Monitoring Publication	2010; 15:4 Year Volume P	9-54				
The only di	fferenc	es between the devices involve the following com		-3~				
		elevant, both Yes and No should be left blank. Please provide details on any)				
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 measurement	ents	Yes ⊠	No □			
	15	Printing Facilities	đ	Yes □	No □			
	16	Communication Facilities	3	Yes □	No □			
(<u>1988) </u>	17	Power Supply	,	Yes □	No ⊠			
	18	Other Facilities		Yes 🗆	No ⊠			
Brief explar	ation c	f differences and further relevant details:						
		anged, no change on the size, shape and material	on bladder.					
		and the down button are added.	on oradion.					
17 AT				:_1: · · · · · · ·	11 1			
level are add		body movement, the symbol for cuff wrapping gr	uide* and the	indicator for	blood pressure			
13) The fun	ction to	detect body movement and the function to guide	cuff wrapping	g are added.				
14) 60 mem	ories in	stead of 42 memories.						
47.0								
*Informs to	user if	the cuff was incorrectly wrapped.						

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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 Ti Nakawali'

Takefumi Nakanishi

Date <u>17 February 2010</u>

Name

Name Janet Meijer

Company Stamp/Seal

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Comparison of the Omron M3 (HEM-7200-E) with the Omron M3 Intellisense (HEM-7051-E)

Devices	M3 (HEM-7200-E)	M3 Intellisense (HEM-7051-E)			
Pictures	One of The one of the original		12 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -		
Display	M Systolic blood pressure N Diastolic blood pres		K. Systolic blood pressure L. Diastolic blood pressure L. Diastolic blood pressure M. Memory symbol N. Average value symbol O. Buzzer symbol P. Battery low symbol	 Q. Heartbeat symbol R. Pulse display S. Deflation symbol T. Date/Time display U. Irregular heartbeat symbol 	
Validation			ESH		
Device 1 Criteria	Buttons/Switches Settings				
	Up and down Display/Symbols/Indicators Measurement Procedure	10			
	Correct cuff wrapping indicator Post Measurement	11, 13			
	Body movement error Algorithms Parameter Settings	3, 11, 13			
	Correct cuff wrapping detection Diagnostic	13			
	Body movement error detection	3, 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	_, 3	Method	_, 3	
	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 Inflation	13, 14	Manually initiated measurements Inflation	13, 14
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 Deflation	7	Manually adjustable inflation pressure Deflation	7
Automatic Deflation	8	Automatic Deflation	8
Automatic safety release valve Note 1 Cuffs	8	Automatic safety release valve Note 1 Cuffs	8
Medium 146 mm × 446 mm (Arm circ. 22 to 32 cm) Query 2	6	Medium 146 mm × 446 mm (Arm circ. 22 to 32 cm) Query 2	6
Large (Arm circ. 32-42 cm) (Optional) Query 2 Sensors	6	Large (Arm circ. 32-42 cm) (Optional) Query 2 Sensors	6
Pressure sensor: capacitive	5	Pressure sensor: capacitive	5
Buttons/Switches		Buttons/Switches	
Power	40	Power	40
On/Off with Start/Stop (O/I Start Label) Measurement Records	10	On/Off with Start/Stop (O/I Start Label) Measurement Records	10
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
Audible pulse indicator during deflation (Optional)	18	Audible pulse indicator during deflation (Optional)	18
Beeps after measurement (Optional) Post Measurement	18	Beeps after measurement (Optional) Post Measurement	18
SBP, DBP and Pulse	11	SBP, DBP and Pulse	11
Irregular heartbeat	11, 13	Irregular heartbeat	11, 13
Average symbol	11, 13	Average symbol	11, 13
Measurement Records	11, 15	Measurement Records	11, 13
Memory icon	11	Memory icon	11
Date and Time	- -	Date and Time	- -
Date and Time	11	Date and Time	11

Peasurement Pleasurement Records Memory: 60 measurements Pleasurement Pleasurement Pleasurement Pleasurement Pleasurement error EE, E, E/E and Er/25 Query 3 Pleasurement Hypertension (Indicator strip)	14 11 11, 13	Measurement Measurement Records Memory: 42 measurements Display/Symbols/Indicators Post Measurement Measurement error EE, E, E/E and E□≥5 Query 3 Hypertension (Blinking heartbeat)	14 11 11, 13
Measurement Records Memory: 60 measurements splay/Symbols/Indicators lost Measurement Measurement EE, E, E/E and Er/25 Query 3	11	Measurement Records Memory: 42 measurements Display/Symbols/Indicators Post Measurement Measurement error EE, E, E/E and Eo25 Query 3	11
Measurement Records Memory: 60 measurements splay/Symbols/Indicators lost Measurement		Measurement Records Memory: 42 measurements Display/Symbols/Indicators Post Measurement	
Measurement Records Memory: 60 measurements splay/Symbols/Indicators	14	Measurement Records Memory: 42 measurements Display/Symbols/Indicators	14
Measurement Records Memory: 60 measurements	14	Measurement Records Memory: 42 measurements	14
Measurement Records	4.5	Measurement Records	4.5
Automatic switch-off when not used for 5 min	17	Automatic switch-off when not used for 5 min	17
AC adapter (Optional)	17	AC adapter (Optional)	17
			17
lower	.=	Power	
Segment LCD	10	Segment LCD	10
Single screen display		Single screen display	
Display		Display	
se	_5	Case	_5
	13		13
• • •	13	· · · ·	13
-	13	Normotension/Hypertension	13
Diagnostic	13	Diagnostic	13
	12		13
		1 -	
·	11, 18	·	11, 18
Settings		Settings	
		Low battery	11, 17
Power		Power	11
	Low battery ettings Audible pulse indicator mode active orithms verages Last 3 measurements (within 10 min of each other) mean lagnostic Normotension/Hypertension 135 / 85 mmHg thresholds Irregular heartbeat detection le lisplay Single screen display Segment LCD	Low battery Low battery Low battery Audible pulse indicator mode active Orithms Verages Last 3 measurements (within 10 min of each other) mean Augnostic Normotension/Hypertension 13 135 / 85 mmHg thresholds Irregular heartbeat detection 13 13 135 / 85 mmHg thresholds 13 13 measurements (within 10 min of each other) 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Power Low battery Low battery Settings Audible pulse indicator mode active Orithms Verages Last 3 measurements (within 10 min of each other) mean agnostic Normotension/Hypertension 135 / 85 mmHg thresholds Irregular heartbeat detection Segment LCD Ower Normotension/Segment LCD Ower Power Low battery Settings Audible pulse indicator mode active Algorithms Averages Last 3 measurements (within 10 min of each other) mean Diagnostic Normotension/Hypertension 13 Normotension/Hypertension 13 135 / 85 mmHg thresholds Irregular heartbeat detection Case Display Single screen display Segment LCD Power

Comments	Note 1	The fact we have is that the group of M3 Intellisense (HEM-7051-E) have same deflation mechanism. They have same valves for
		deflation system, as you mentioned, which are the regular deflation valve (slow deflation during measurement) and the rapid
		exhaust valve (release pressure rapidly from air system in the device after measurement to make comfortable and safe patients).
		Also these 2 valves are operated by automatic. In some device's manual e.g. M3 Intellisense (HEM-7051-E), we mention only
		"Deflation: Automatic pressure release valve" as one function of automatic deflation so that we could provide easy explanation
		to end users.

	Query 2 There appear to be some differences in the cuffs supplied with the monitors.							
		a) There are different part numbers between those listed for the devices. These match the declaration of the different cleovers. No difference is made in the declaration. It is taken that there are no changes.						
		b) It is understood that the cloth changes apply to the large cuffs also.						
	Response 2	a) These cuffs have no differences except cloth covers. The parts number difference comes from different cloth covers.						
		b) These cuffs have no differences except cloth covers. 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.						
	Query 3							
	Response 3	oonse 3 Regarding to Chart 1, when error appears in the device, the number in 2nd line indicates current air pressure. Regarding to Eo2 and Er25, these indicates same error "device error". These differences come from hardware limitation from LCD display.					, , , , , , , , , , , , , , , , , , , ,	
		_	C	hart 1 E	rror Code	s		
			Model	del Error codes				
			M3 Intellisense	EE	E	E/E	Eo25	
			M3	EE	E	E/E	Er25	
	One of the Omron websites describes an M3 device http://www.omron-healthcare.com.sg/products_bloodpressure_m3.h which differs from that for which the application was supplied. There is no "HEM" model number for this on the site. Therefore it is difficult to distinguish them from the similarly named applicant devices. How can this device be distinguished from that which the application is made? Response 4 Mentioned device, M3 on http://www.omron-healthcare.com.sg, do not have "HEM" model so far. When this device we marketed, we have communicated by using only "M3" without mentioning "HEM" model. However as dabl pointed out, to confuses user to identify which model. From now on, the new device will be described with HEM model numbers, for example M3(HEM-7200-E), to distinguish as like OMRON Healthcare Europe website. (http://www.omron.healthcare.com/en/product/blood_pressure_monitors/M3.html) in case we use same sales name (e.g. M3) at global marked basis.						odel number for this on the site. Therefore,	
							model. However as dabl pointed out, this ped with HEM model numbers, for example Europe website. (http://www.omron-	
Recommendation	The queries were adequately answered. Equivalence is recommended.							
Date	26/08/2010	26/08/2010						