

Declaration of Equivalence Form

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE

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

SECTION A - Please complete all items.

1	Andre va Name of a Co	,	ector			a Director of	Omron He Company nam	althcare Europ	pe B.V.,	
he	reby state	that the	ere are no differe	nces tha	t will aff	ect blood press	ure measu	ring accuracy b	between the	
Ma	ker ^a	Omron Vietnan	Healthcare n Co., LTD	Man.	Address	Binh Duong Pr	ovince, Vie	tnam		
Ma	Manufacturer ^b Omron Healthcare Co., Ltd.			Address	53, Kunotsubo, Terado-cho, Muko, KYOTO, 617-0002 Japan					
	Brand ^c Omron Blood pressure measuring device for which validation is claimed. If			Model ^d If alternative	RS1 (HEM-6160-E) e model names are used, include all.					
blo	blood pressure measuring device and the validated blood pressure measuring device									
Ma	ker ^a	Omron Vietnan	Healthcare n Co., LTD	Man.	Address	Binh Duong Pr	ovince, Vie	tnam		
Manufacturerb Omron Healthcare Co., Ltd.				Address	53, Kunotsubo, Terado-cho, Muko, KYOTO, 617-0002 Japan					
Bra Exis		Omron blood press	ure measuring device.		Modeld	RS4 (HEM-618	1-E)			
which has previously passed the ESH2010 protocol, the results of which were published as follows:										
Validation of two automatic devices, Omron HEM-6232T and HEM-6181, for self-measurement of blood pressure at the wrist according to the ANSI/AAMI/ISO 81060-2:2013 protocol and the European Society of Hypertension International Protocol revision 2010 Full reference										
	e only diff		between the dev	vices invo	olve the f	following comp	onents:			
	Part I	1	Algorithm for Os	cillomet	ric Meas	urements		Yes 🗌	No 🖂	N/A ^e
		2	Algorithm for Au	scultato	rv Measi	irements		Yes 🖂	No 🗆	N/A ^f 🖂

Part I	1	Algorithm for Oscillometric Measurements	Yes 🗌	No 🖂	N/A ^e
	2	Algorithm for Auscultatory Measurements	Yes 🗌	No 🗌	$N/A^f \boxtimes$
	3	Artefact/Error Detection	Yes 🗌	No 🖂	
	4	Microphone(s)	Yes 🗌	No 🗌	$N/A^f \boxtimes$
	5	Pressure Transducer	Yes 🗌	No 🖂	
	6	Cuffs or Bladders	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 🗌	N/A ^g 🖂
	16	Communication Facilities	Yes 🗌	No 🗌	N/Ag 🖂
	17	Power Supply	Yes 🗌	No 🖂	
	18	Other Facilities	Yes 🗌	No 🗌	N/A ^g ⊠

An explanation of each item ticked "Yes" must be included in Section B or on a separate sheet.

Fax + 353 1 278 3835

Notes: a Provide the name and address of the actual maker of the device.

- b Provide the name and address of the legal manufacturer of the device, even if it is the same as that of the maker.
- c Provide the name of the brand under which it is sold, even if it is the same as that of the manufacturer or maker.
- d Provide the model name. If alternative or internal model names are used, include all. Each device must be uniquely identifiable.
- e Only tick N/A (Not Applicable) if neither device measures blood pressure using the oscillometric method.
- f Only tick N/A (Not Applicable) if neither device measures blood pressure using the auscultatory method.
- g Only tick N/A (Not Applicable) if neither device provides printing, communication or other facilities, as appropriate.

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SECTION B

An explanation for each item, 1 to 18, ticked "Yes" in Section A must be provided here or in an attached document. All differences between the devices must be described.

In an attached document. DET9 Form.

SECTION C

Please check that the following are included with the application

A manual for the validated device

A manual for the device for which equivalence is being sought

Completed DET9 Form

An image of the device for which equivalence is being sought

An image of the screen layout of validated device*

An image of the screen layout of the device for which equivalence is being sought*

* Screen layouts shown complete, and without obscuring labels or lines, in manuals need not be included separately.

SECTION D

Complete all items, bar signatures and seal, online and print. Sign and seal it then send the original to our address below. Please email a signed copy of this form, together with the manuals and images for both devices, to info@dableducational.org.

Signature of Director

Lucia Prada

Name Date

6 March, 2019

Signature of Witness

Name

Janet Meijer

Address

6 March, 2019

Company Stamp/Seal

OMRON HEALTHCARE EUROPE BV

Scorpius 33 NL-2132 LR Hoofddorp

P.O.BOX 2050 NL-2130 GL Hoofddorp

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Device Equivalence Evaluation Form

Comparison of the Omron RS1 (HEM-6160-E) with the Omron RS4 (HEM-6181-E)

Devices – Item 9	Omron RS1 (HEM-6160-E)	Omron RS4 (HEM-6181-E)		
Pictures	OMRON SYS DIA BANGA PRISE START STOP	Omron RS4 (HEIM-6181-E)		
Display Image		THIS WEEK ANG		
Validation	(equivalence)	ANSI/AAMI/ISO 81060-2:2013 and ESH 2010		
Category	Wrist Devices for Self-measurement of Blood Pressure	Wrist Devices for Self-measurement of Blood Pressure		
Casing – Item 10	Casing Dimensions Approximately 84 mm (w) × 62 mm (h) × 21 mm (l) (not including the wrist cuff)	Casing Dimensions Approximately 93 mm (w) × 62 mm (h) × 20 mm (l) (not including the wrist cuff)		

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Device Equivalence Evaluation Form

	Buttons/Switches	Buttons/Switches
	Power	Power
	On/Off with START/STOP button	On/Off with START/STOP button
	Measurement Records	Measurement Records
	Memory button	Memory button
	Memory Success	Morning Average button
Display – Item 11	Display/Symbols/Indicators	Display/Symbols/Indicators
		Preparation
		Positioning indicator
	Measurement Procedure	Measurement Procedure
	Deflation symbol	Deflation symbol
	Heartbeat symbol	Heartbeat symbol
	During Measurement: Blood Pressure Level	During Measurement: Blood Pressure Level
	Post Measurement	Post Measurement
	SBP, DBP and Pulse	SBP, DBP and Pulse
	Irregular heartbeat symbol	Irregular heartbeat symbol
	Cuff wrap guide symbol (OK, loose)	Cuff wrap guide symbol (OK, loose)
	Measurement error "E1 E3 E4 E5 Er"	Measurement error "E1 E3 E4 E5 Er"
		Body Movement error
		Measurement error "E7"
		(Wrist is moved up and down during a measurement)
	Measurement Records	Measurement Records
	Memory symbol	Memory symbol
	Wellioty symbol	Memory recall number (replaces pulse rate momentarily)
	Power	Power
	Battery symbol (low, depleted)	Battery symbol (low, depleted)
	Battery symbol (low, depleted)	Date and Time
		Date and Time (During memory recall)
		Function
		Morning average symbol
		Average value symbol
		Hypertension symbol
		Morning hypertension symbol
Carrying/Mounting	Carrying/Mounting Facilities	Carrying/Mounting Facilities
Facilities – Item 12	No Storage Case	Storage Case
Software other than	Software other than Algorithm	Software other than Algorithm
Algorithm – Item 13	, , , , , , , , , , , , , , , , , , , ,	Averages and Differences
Alborronn Item 13		Average (Last 3 measurements value within 10 min)
		Weekly Average (morning measurements value within 8 weeks)
	Diagnostic	Diagnostic
	Irregular heartbeat detection	Irregular heartbeat detection
	inegular neartheat detection	Blood Pressure classification
	- Frankling	
	Functions	Functions
	Correct cuff wrapping detection	Correct cuff wrapping detection
		Body movement error detection

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Device Equivalence Evaluation Form

Memory Capacity	Number of stored measurements		Number of stored measurements	
Item 14	Stores last reading	60 measurements		
Same Criteria	Measurement	Measurement		
	Accuracy		Accuracy	
	Blood Pressure accuracy ± 3 mmHg	1,5	Blood Pressure 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
	Manually initiated measurements	13	Manually initiated measurements	13
	Ranges		Ranges	
	Cuff Pressure range 0 to 299 mmHg	1,5,7,8	Cuff Pressure range 0 to 299 mmHg	1,5,7,8
	Blood Pressure measurement SYS 60 to 260 mmHg	1,5,7,8	Blood Pressure measurement SYS 60 to 260 mmHg	1,5,7,8
	Blood Pressure measurement DIA 40 to 215 mmHg	1,5,7,8	Blood Pressure measurement DIA 40 to 215 mmHg	1,5,7,8
	Pulse measurement 40 to 180 beats / min.	1,5,7,8	Pulse measurement 40 to 180 beats / min.	1,5,7,8
	Inflation		Inflation	
	Inflation 0 to 299 mmHg	1,5,7	Inflation 0 to 299 mmHg	1,5,7
	Automatic Inflation	7	Automatic Inflation	7
	Deflation		Deflation	
	Automatic Deflation	8	Automatic Deflation	8
	Cuffs (Please state sizes and materials used)		Cuffs (Please state sizes and materials used)	
	Wrist Cuff (Wrist circumference 13.5 cm to 21.5 cm) Type BF	6	Wrist Cuff (Wrist circumference 13.5 cm to 21.5 cm) Type BF	6
	Sensors		Sensors	
	The electric pressure sensor	5	The electric pressure sensor	5
	Measurements other than Blood Pressure		Measurements other than Blood Pressure	
	Pulse 40 to 180 beat / min.	1,5,8	Pulse 40 to 180 beat / min.	1,5,8
	Buttons/Switches	• •	Buttons/Switches	• •
	Power		Power	
	On/Off with START/STOP button	10	On/Off with START/STOP button	10
	Measurement Records		Measurement Records	
	Memory button	10	Memory button	10
	Display/Symbols/Indicators	10	Display/Symbols/Indicators	10
	1		Measurement Procedure	
	Measurement Procedure	11		11
	Deflation symbol	11	Deflation symbol	11
	Heartbeat symbol	11	Heartbeat symbol	11 11
	During Measurement: Blood Pressure Level	11	During Measurement: Blood Pressure Level	11
	Post Measurement	11	Post Measurement	1.1
	SBP, DBP and Pulse	11	SBP, DBP and Pulse	11
	Irregular heartbeat symbol	11	Irregular heartbeat symbol	11
	Cuff wrap guide symbol (OK, loose)	11	Cuff wrap guide symbol (OK, loose)	11
	Measurement error "E1 E3 E4 E5 Er"	11	Measurement error "E1 E3 E4 E5 Er"	11
	Measurement Records		Measurement Records	
	Memory symbol	11	Memory symbol	11
	Power		Power	
	Battery symbol (low, depleted)	11	Battery symbol (low, depleted)	11
	Software other than Algorithm		Software other than Algorithm	
	Diagnostic		Diagnostic	
	Irregular heartbeat detection	13	Irregular heartbeat detection	13

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Device Equivalence Evaluation Form

	Functions Correct cuff wrapping detection	13	Functions Correct cuff wrapping detection	13	
Comments					
Recommendation Recommended					

Date

28 March 2019

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