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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	comp	lete	all	items
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	I Yasuhiko Shinozaki, Name of a Company Director			a Directo	r of A&D Compn Company name	ay,Limite	d,		
hereby	state	that th	ere are no differences that	t will affe	ect blood p	ressure measurin	g accurac	y between the	
Makera		A&D Compnay,Limited		Address	3-23-14 JAPAN	Higashi-ikebuku	ro Tosh	ima-Ku,Tokyo	170-0013
Manufac	turerb	r ^b A&D Compnay,Limited		Address	3-23-14 JAPAN	Higashi-ikebuku	ro Tosh	ima-Ku,Tokyo	170-0013
Brande		A&D		Modeld	TM-2440				
Blood pres	sure mea	asuring de	evice for which validation is claimed. If	falternative	model names	are used, include all.			
blood p	ressur	e mea	suring device and the valid	ated blo	od pressur	e measuring devi	ice		
Makera		A&D	Compnay,Limited	Address	3-23-14 JAPAN	Higashi-ikebuku	ro Tosh	ima-Ku,Tokyo	170-0013
Manufac	turer ^b	A&D	Compnay,Limited	Address	3-23-14 JAPAN	Higashi-ikebuku	ro Tosh	ima-Ku,Tokyo	170-0013
Brand ^c Existing val	Brand ^c A&D N			Modeld	TM-2441				
which h	as pre	viously	y passed the ISO81060-2	protocol	the result	s of which were p	oublished	as follows:	
Kario.K, ISO 810 Full referen	60-2:2		et al. Validation of the TM- andard	-2441 an	nbulatory l	plood pressure m	easuremo	ent device acco	ording to the
The only			s between the devices invo	lve the f	ollowing co	omponents:			
Part	:1	1	Algorithm for Oscillometr	ic Meası	irements	Υ	es 🗌	No ⊠	N/Ae
		2	Algorithm for Auscultator	rements	Υ	es 🗌	No 🗆	N/A ^f ⊠	
		3	Artefact/Error Detection			Υ	es 🗌	No ⊠	
		4	Microphone(s)			Υ	es 🗌	No 🗆	$N/A^f \boxtimes$
		5	Pressure Transducer			Υ	es 🗌	No 🖂	
		6	Cuffs or Bladders			Y	es 🗌	No 🗵	
		7	Inflation Mechanism			Υ	es 🗌	No 🖂	
-		8	Deflation Mechanism			Y	es 🗌	No 🖂	
Part	: 11	9	Model Name or Number			Υ	es 🛛	No 🗌	
		10	Casing			Υ	es 🛛	No 🗆	
	;	11	Display			Υ	es 🛛	No □	
		12	Carrying/Mounting Facilities			Υ	es 🖂	No 🔀	

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

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

Power Supply

Other Facilities

Printing Facilities

Communication Facilities

Software other than Algorithm

13

14

15

16

17

18

b Provide the name and address of the legal manufacturer of the device, even if it is the same as that of the maker.

Memory Capacity/Number of stored measurements

- 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.

Yes 🛛

Yes 🗆

Yes 🗌

Yes 🛛

Yes 🗌

Yes 🗌

No 🗆

No 🛛

No 🗆

No 🗌

No 🛛

No 🛛

N/Ag 🖂

N/A^g

N/Ag

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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.

- 9)The equivalent device model name:TM-2440
- 10) Difference of case design and function. Both devices have the different casing.
- 11) The display of TM-2440 is only OLED (display of TM-2441 is OLED and LCD).
- 13) Difference of switch function, sencing acceleration, Bluetooth communication, etc.
- 16)Bluetooth communication can not be used.

SECTION C Please check that the following are included with the application

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.

Company Stamp/Se

Signature of Director

Signature of Witness

10(30011)-1-1011(0)20

Name Yasuhiko Shinozaki

Date 22 July 2019

Name Shinobu Ozaki

Address 3-23-14 Higashi-ikebukuro Toshima-Ku,Tokyo 170-0013 JAPA

Form DET7 130102



Device Equivalence Evaluation Form

Comparison of the A&D TM2440 with the A&D TM2441

Devices – Item 9	A&D TM2440	A&D TM2441
Pictures	START/STOP EVENT	START/STOP EVENT
Display Image	2120 SYS 2 80 DIA	2120 SYS 2 80 DIA + SYS BBB PUL SYS P
Validation	© 80 ^{PUL}	© 80 min DIA BBB KPa mmHg PUL 38:88 /min
Category	Ambulatory Blood Pressure Monitor	Ambulatory Blood Pressure Monitor
Casing – Item 10	Ambulatory Blood Pressure Monitor Dimensions Approx: 95 [D] × 66 [W] × 24.5 [H] mm	Dimensions Approx: 95 [D] × 66 [W] × 24.5 [H] mm
	Ports Cuff port USB connector port	Ports Cuff port USB connector port
	Features START/STOP switch for ABPM EVENT switch	START/STOP switch for ABPM START/STOP switch for Self Measurement EVENT switch Exchange AUTO switch between ABPM and Self Measurement

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Device Equivalence Evaluation Form

Display – Item 11	Type OLED display (dot matrix)	Type OLED display (dot matrix) + liquid crystal display
Carrying/Mounting Facilities – Item 12	N/A	N/A
Software other than Algorithm – Item 13	Auto blood pressure measurement USB communication	Auto blood pressure measurement Self blood pressure measurement Changing between ABPM and Self Acceleration sensing and memory Temperature and Barometric pressure sensing and memory Bluetooth communication USB communication
Memory Capacity Item 14	Number of stored measurements 600 blood pressure measurements	Number of stored measurements 600 blood pressure measurements
Printing Facilities Item 15	N/A	N/A
Communication Facilities – Item 16	USB communication	Bluetooth® Ver.4.1 Low Energy USB communication
Power Supply Item 17	2×1.5V batteries(LR6 or AA) Alkaline battery or Nickel-hydrogen battery 1900mAh or more	2×1.5V batteries(LR6 or AA) Alkaline battery or Nickel-hydrogen battery 1900mAh or more
Other differences	Other Details on Equivalent device that are different to Validated device Sensors N/A	Other Details on Validated device that are different to Equivalent device Sensors N/A
Same Criteria	Method Oscillometric measurement	Measurement Sensors Semiconductor sensor Accuracy Pressure: ±3 mmHg Pulse: ±5 % Method Oscillometric measurement

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dabl®Educational Trust Device Equivalence Evaluation Form

Ranges Ranges Pressure: 0 - 299 mmHg Pressure: 0 - 299 mmHg Systolic pressure: 60 - 280 mmHg Systolic pressure: 60 - 280 mmHg Diastolic pressure: 30 - 160 mmHg Diastolic pressure: 30 - 160 mmHg Pulse: 30 - 200 beats/minute Pulse: 30 - 200 beats/minute Inflation Inflation Rolling pump Rolling pump Deflation Deflation Electromagnetic constant exhaust valve Electromagnetic constant exhaust valve Cuffs (Please state sizes and materials used) Cuffs(Please state sizes and materials used) Small cuff: 15cm-22cm Nylon Small cuff: 15cm-22cm Nylon Adult cuff: 20cm-31cm Nylon Adult cuff: 20cm-31cm Nylon Large cuff: 36cm-50cm Nylon Large cuff: 36cm-50cm Nylon Extra large cuff: 36cm-50cm Nylon Extra large cuff: 36cm-50cm Nylon Measurement Records Measurement Records Date&Time, SYS,DIA,PUL Date&Time, SYS,DIA,PUL Measurements other than Blood Pressure Measurements other than Blood Pressure Pulse rate(PUL) Pulse rate(PUL) **Buttons/Switches Buttons/Switches** Power Power N/A N/A Analysis Analysis N/A N/A **Function Function EVENT** switch **EVENT** switch **Event Marking Event Marking** N/A N/A Communication Communication N/A N/A

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Device Equivalence Evaluation Form

	Display/Symbols/Indicators	Display/Symbols/Indicators
	Preparation	Preparation
	Positioning indicator	Positioning indicator
	Zero is blinking	Zero is blinking
	Date and Time	Date and Time
	Year, Month, Day, Hour, Minute	Year, Month, Day, Hour, Minute
	Power	Power
	Battery detection symbol	Battery detection symbol
	Post Measurement	Post Measurement
	Systolic blood pressure	Systolic blood pressure
	Diastolic blood pressure	Diastolic blood pressure
	Pulse rate	Pulse rate
	Date and Time	Date and Time
	Measurement Records	Measurement Records
	Systolic blood pressure	Systolic blood pressure
	Diastolic blood pressure	Diastolic blood pressure
	Pulse rate	Pulse rate
	Date and Time	Date and Time
	Memory number	Memory number
	Not described	Not described
	N/A	N/A
	Algorithms	Algorithms
	Averages and Differences	Averages and Differences
	N/A	N/A
	Diagnostic	Diagnostic
	N/A	N/A
Comparable Criteria	Buttons/Switches	Buttons/Switches
	Measurement Records	Measurement Records
	START/STOP switch for ABPM	START/STOP switch for ABPM
		START/STOP switch for Self Measurement

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Device Equivalence Evaluation Form

Display/Symbols/Indicators	Display/Symbols/Indicators
Measurement Procedure	Measurement Procedure
Pressure value	Pressure value
	Heart mark (on LCD)
Features	Features
N/A	Display the minutes until the measurement (on LCD)
Function	Function
ABPM setting	ABPM setting
	Self Measurement setting
Communication	Communication
USB communication symbol	USB communication symbol (on LCD)
	Bluetooth communication symbol (on LCD)
Algorithms	, , ,
Functions	Algorithms
IHB detection	Functions
	IHB detection (display on LCD)
Communication	
USB communication	Communication
	Bluetooth® Ver.4.1 Low Energy
	USB communication

Comments	
Recommendation	Recommended
Date	12 th August 2019

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