

Declaration of Equivalence Form

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2013

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

a Director of A&D Company LTD,

SECTION A - Please complete all items.

Masaki Furukoshi.

. Name of a Co	ompany Director		Company name
hereby state	that there are no differences tha	t will affe	ect blood pressure measuring accuracy between the
Maker ^a	A&D Company,Limited	Address	1-243 Asahi, Kitamoto-shi, Saitama, 364-8585 Japan
Manufacturer ^b	A&D Company,Limited	Address	1-243 Asahi, Kitamoto-shi, Saitama, 364-8585 Japan
Brand^c Blood pressure m	A&D easuring device for which validation is claimed. I	Model^d f alternative	TM-2657 emodel names are used, include all
blood pressu	ure measuring device and the valid	dated blo	ood pressure measuring device
Maker ^a	A&D Company,Limited	Address	1-243 Asahi, Kitamoto-shi, Saitama, 364-8585 Japan
Manufacturer ^b	A&D Company,Limited	Address	1-243 Asahi, Kitamoto-shi, Saitama, 364-8585 Japan
Brand^c Existing validated	A&D blood pressure measuring device.	Model ^d	TM-2656
which has pr	reviously passed the BHS:1993 pr	otocol, t	he results of which were published as follows:
Zeng WF, Li	u M, Kang YY, Li Y, Wang JG. Va	lidation	of the fully automated A&D TM-2656 blood pressure monitor

The only differences between the devices involve the following components:

according to the British Hypertension Society Protocol. Blood Press Monit 2013;18(4):223-6.

Tick one box for each item 1-18.

Part I	1	Algorithm for Oscillometric Measurements	Yes 🗌	No 🛛	N/A ^e 🔲
	2	Algorithm for Auscultatory Measurements	Yes 🔲	No 🔲	N/A ^f ⊠
	3	Artefact/Error Detection	Yes 🔲	No 🖂	
	4	Microphone(s)	Yes 🗌	No 🗌	N/A ^f ⊠
	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/A ^g
7	17	Power Supply	Yes 🗌	No 🛛	
	18	Other Facilities	Yes 🖂	No 🖂	N/A ^g \square

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

N	ot	es	1

- 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.

- 9) Model number is changed to TM-2657 from TM-2656.
- 10) Submitted device and validated device have difference case design, both devices have the different casing.

TM-2656 has two [START/STOP] button on both sides. TM-2657 has one[START/STOP] button on the top.

- 11) TM-2656 has IHB (Irregular heart beat) symbol mark, but TM-2657 not.
- 12) Both devices have the different bottom dimension.
- 13) TM-2657 added a printing function(print out Bar code or QR code on the paper).
- 16) TM-2657 added Bluetooth connection (option).

SECTION C	Please check that the following are included with the application	
	A manual for the validated device	\boxtimes
	A manual for the device for which equivalence is being sought	\boxtimes
	An image of the validated device	\boxtimes
	An image of the device for which equivalence is being sought	\boxtimes
	An image of the screen layout of validated device*	\boxtimes
	An image of the screen layout of the device for which equivalence is being sought*	\boxtimes

* 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/Seal

Name

Masaki Furukoshi

Date

3 July, 2015

Signature of Witness

Name

Address

1-243 Asahi, Kitamoto-shi, Saitama, 364-8585 Japan



Device Equivalence Comparison Form

Comparison of the A&D TM-2657 with the A&D TM-2656

Devices	TM-2657	TM-2656
Pictures		
Display	SYS morted DIA morted PUL minu. B B B	M M D D D MEASUREMENT IN PROGRESS TAKE MEASUREMENT AGAIN SYS THREE PUL PUL PUL PUL PUL PUL PUL PUL PUL PU
Validation		BHS:1993
Device 1 Criteria		Buttons/Switches each [START/STOP]button on the both sides Display/Symbols/Indicators indicators "AM/PM" indicator for time "Irregular Heart Beat(I.H.B.)" "" symbol mark indicator
Device 2 Criteria	Buttons/Switches one [START/STOP]button on the top Casing Communication: Bluetooth connection	

Same Criteria

Measurement

Accuracy

Pressure: ±3 mmHg Pulse: ±5 % of reading

Method

Oscillometric measurement method

Ranges

Pressure: 0 - 299 mmHg Pulse: 30 - 240 beats/minute

Inflation

Automatic inflation by air pump

Deflation

Automatic deflation by mechanical exhaust

Cuffs (Please state sizes and materials used)

Winding mechanism operated by geared motor

Bladder size: 125(w) x 300(L) mm Applicable arm circumference

:7 inches(18.0 cm) to 13.8 inches(35.0 cm)

Sensors

Pressure sensor: Capacitance type pressure transducer

Measurement Records

3-digit display LED and thermal printer (SYS DIA PR)

Buttons/Switches

Power

Switching AC Power supply unit 100-240V AC 50-60Hz

Function

[SELECT] button: used to select function [▲] button: use to change function

[COUNT]button: display the number of measurements

Measurement

Accuracy

Pressure: ±3 mmHg Pulse: ±5 % of reading

Method

Oscillometric measurement method

Ranges

Pressure: 0 - 299 mmHg Pulse: 30 - 240 beats/minute

Inflation

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Buttons/Switches

Power

Switching AC Power supply unit

100-240V AC 50-60Hz

Function

[SELECT] button: used to select function [▲] button: use to change function

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Device Equivalence Comparison Form

	Display/Symbols/Indicators Preparation "O" lighting Measurement Procedure Display the pressure value during measurement Post Measurement	Display/Symbols/Indicators Preparation "O" lighting Measurement Procedure Display the pressure value during measurement Post Measurement
	systolic blood pressure, diastolic blood pressure, and pulse	systolic blood pressure, diastolic blood pressure, and pulse Date and Time
	Display Time Printing date and time	Display Time Printing date and time
	Function Function number during the function changing mode	Function Function number during the function changing mode
	RS-232C connection (Max 2channels, mini-DIN / D-Sub)	RS-232C connection (Max 2 channels, mini-DIN / D-Sub)
	Algorithms Diagnostic "Irregular Heart Beat(I.H.B.)" "Symbol mark printing	Algorithms Diagnostic "Irregular Heart Beat(I.H.B.)" ""symbol mark printing
	Casing Display 3-digit display LED(SYS DIA PR) 2 LED lamp(measurement status)	Casing Display 3-digit display LED(SYS DIA PR) 2 LED lamp(measurement status)
Comparable Criteria	Buttons/Switches A START/STOP button is on the top: Blood pressure measurement is started /stopped FAST STOP button: All functions are stopped	Buttons/Switches START/STOP buttons are on the both sides: Blood pressure measurement is started /stopped EMERGENCY STOP button: All functions are stopped
	(Change the name of the button)	Communication
	SD Card interface as standard equipment (For maintenance)	Optional USB interface board (For maintenance)

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Device Equivalence Comparison Form

Comments	Both of these devices are intended for public use. The main difference is that TM-2657 model changed the apparent design.	
	TM-2657 also is added a software function (print out bar-code or QR code included ID, date, and blood pressure measurement on the paper).	
Recommendation	Equivalence Recommended	
Date	8 October 2015	

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