

Declaration of Equivalence Form

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE

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

a Director of A&D Compnay, Limited,

| SECTION | Α- | Please | complete | all : | items |
|---------|----|--------|----------|-------|-------|
| | | | | | |

Yasuhiko Shinozaki,

| Name of a 0 | Company D | irector | | Company na | me | | |
|---|--------------------|---|-------------------------------------|--|---------------|------|----------------------------|
| hereby state that there are no differences that will affect blood pressure measuring accuracy between the | | | | e | | | |
| Maker* A&D Compnay,Limited | | | Address | 3-23-14 Higashi-ikebukuro Toshima-Ku,Tokyo 170-0013 JAPAN | | | -0013 JAPAN |
| Manufacturer ^b A&D Compnay,Limited | | | Address | 3-23-14 Higashi-ikebukuro Toshima-Ku,Tokyo 170-0013 JAPAN | | | -0013 JAPAN |
| Brand ^c Blood pressure n | A&D neasuring d | levice for which validation is claimed. | Model ^d If alternativ | UA-651SLPlus e model names are used, include all | | | |
| blood press | ure mea | suring device and the valid | dated blo | ood pressure measuring o | levice | | |
| Maker ^a | A&D C | ompnay,Limited | Address | 3-23-14 Higashi-ikebukuro Toshima-Ku, Tokyo 170-0013 JAPAN | | | |
| Manufacturer ^b | A&D C | ompnay,Limited | Address | 3-23-14 Higashi-ikebukuro Toshima-Ku,Tokyo 170-0013 JAPAN | | | |
| Brand ^c Existing validated | A&D | ssure measuring device. | Model ^d | UA-1020 | | , | |
| which has p | revious | y passed the BHS protoco | ol, the re | sults of which were publi | shed as follo | ws: | |
| Wei-Fang Z | | | | | | | |
| The only dif | | s between the devices invo .–18. | olve the | following components: | | | |
| Part I | 1 | Algorithm for Oscillometr | ric Meas | urements | Yes 🗌 | No 🖂 | N/A ^e \square |
| | 2 | Algorithm for Auscultator | ry Meas | urements | 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 Facility | ties | | Yes 🗌 | No 🖂 | |
| | 13 | Software other than Algo | rithm | | Yes 🖂 | No 🔲 | |
| | 14 | Memory Capacity/Numb | er of sto | red measurements | Yes 🛛 | No 🔲 | |
| | 15 | Printing Facilities | | | Yes 🔲 | No 🔲 | N/A ^g 🖂 |
| | 16 | Communication Facilities | | | Yes 🗌 | No 🗌 | N/A ^g ⊠ |
| n- | 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.

Notes:

- 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.

dabl®Educational Trust

Declaration of Equivalence Form

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.

5)The pressure sensor is replaced to a piezo electric sensor from an electrostatic capacitive sensor, but the accuracy of blood pressure measurement is equivalent between the two sensors.

6)The shapes of the connector are different

9)The equivalent device model name:UA-651SLPlus

10) Difference of case design. Both devices have the different casing.

11) The size and the symbols are different

13) Difference of Date and Time / Tricheck mode / Cuff Fit Error detection / Body Movement Error detection etc

14)UA-651SLPlus: 60 measurements, UA-1020: 90 measurements

SECTION C

Please check that the following are included with the application

Completed DET9 Form

An image of the device for which equivalence is being sought

An image of the screen layout of validated device*

区

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

Ygsuhik. Shinozaki

Company Stamp/Seal

Name

Yasuhiko Shinozaki

Date

18 June 2019

Signature of Witness

Titless

Name Address

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



Device Equivalence Evaluation Form

Comparison of the AND UA-651SLPlus with the AND UA-1020

| Devices – Item 9 | AND UA-651SLPlus | AND UA-1020 |
|------------------|--|---|
| Pictures | E 35 PA ST P | |
| Display Image | | MAVA (AUTO) (180) (210) (240) 11 |
| Validation | | BHS |
| Category | Upper Arm Blood pressure monitor | Upper Arm Blood pressure monitor |
| Casing – Item 10 | Approx: 96 [W] × 68 [H] × 130 [D] mm Ports Cuff port AC adaptor port Features start Button Brand logo printing Model name printing SYS, DIA, PUL printing WHO Classification | Dimensions Approx: 140 [W] × 60 [H] × 105 [D] mm Ports Cuff port AC adaptor port Features start button / set button / ▲ button / ▼ button Brand logo printing Model name printing SYS, DIA, PUL printing WHO Classification |

dabl®Educational Trust

Device Equivalence Evaluation Form

| Display – Item 11 | Type liquid crystal display | Type liquid crystal display |
|--|---|--|
| Carrying/Mounting Facilities – Item 12 | N/A | N/A |
| Software other than Algorithm – Item 13 | | Date and Time TriCheck™ mode MyPressure Setting mode (AUTO/180/210/240) Cuff Fit Error detection Body Movement Error detection |
| Memory Capacity Item 14 | Number of stored measurements Last 60 measurements | Number of stored measurements Last 90 measurements |
| Printing Facilities Item 15 | N/A | N/A |
| Communication Facilities – Item 16 | N/A | N/A |
| Power Supply Item 17 | 4×1.5V batteries(R6P, LR6 or AA) or AC adapter(TB-233C) (optional) | 4×1.5V batteries(R6P, LR6 or AA) or AC adapter(TB-233C) (optional) |
| Other differences | Other Details on Equivalent device that are different to Validated device Sensors Semiconductor sensor Cuff plug Outline | Other Details on Validated device that are different to Equivalent device Sensors Capacitance sensor Cuff plug Outline |
| Same Criteria | Measurement Accuracy Pressure: ±3 mmHg Pulse: ±5 % | Measurement Accuracy Pressure: ±3 mmHg Pulse: ±5 % |

© 2002-2019 dabl®Educational Trust Limited

Page 2 of 5

Method

Oscillometric measurement

Ranges

Pressure: 0 - 299 mmHg

Systolic pressure: 60 - 279 mmHg Diastolic pressure: 40 - 200 mmHg

Pulse: 40 - 180 beats/minute

Inflation

Automatic inflation

Deflation

Automatic deflation

Cuffs (Please state sizes and materials used)

16-24cm, 22-32cm, 23-37cm, 31-45cm

Nylon

Sensors

Semiconductor sensor

Measurement Records SYS,DIA,PUL

Measurements other than Blood Pressure

Heart rate

WHO classification

Buttons/Switches

Power

Start button

Measurement Records

Memory recall button – Start button for 3sec

Function

N/A

Analysis

Method

Oscillometric measurement

Ranges

Pressure: 0 - 299 mmHg

Systolic pressure: 60 - 279 mmHg Diastolic pressure: 40 - 200 mmHg

Pulse: 40 - 180 beats/minute

Inflation

Automatic inflation

Deflation

Automatic deflation

Cuffs(Please state sizes and materials used)

16-24cm, 22-32cm, 23-37cm, 31-45cm

Nylon

Sensors

Capacitance sensor

Measurement Records SYS, DIA, PUL

Measurements other than Blood Pressure

Heart rate

WHO classification

Buttons/Switches

Power

Start button

Measurement Records

Memory recall button – ▲button or ▼button

Function

Date and time setting - set button

Analysis

© 2002-2019 dabl®Educational Trust Limited Page 3 of 5

dabl®Educational Trust

Device Equivalence Evaluation Form

N/A

Event Marking

N/A

Communication

N/A

Display/Symbols/Indicators

Preparation

Zero is blinking

Measurement Procedure

Pressure value

Heart mark

Pressure bar indicator

Post Measurement

Systolic blood pressure

Diastolic blood pressure

Pulse rate

WHO classification

Measurement Records

Systolic blood pressure

Diastolic blood pressure

Pulse rate

WHO classification

Memory mark symbol

Memory number

Date and Time

N/A

Power

Battery detection symbol

N/A

Event Marking

N/A

Communication

N/A

Display/Symbols/Indicators

Preparation

Zero is blinking

Measurement Procedure

Pressure value

Heart mark

Pressure bar indicator

Post Measurement

Systolic blood pressure

Diastolic blood pressure

Pulse rate

WHO classification

Date and Time

Measurement Records

Systolic blood pressure

Diastolic blood pressure

Pulse rate

WHO classification

Date and Time

Memory mark symbol

Memory number

Date and Time

Year, Month, Day, Hour, Minute

Power

Battery detection symbol

© 2002-2019 dabl®Educational Trust Limited Page 4 of 5

dabl®Educational Trust

Device Equivalence Evaluation Form

| | Function | Function |
|---------------------|--------------------------|--|
| | Average data | Average data |
| | | TriCheck™ mode |
| | | MyPressure Setting mode (AUTO/180/210/240) |
| | | Cuff Fit Error detection |
| | | Body Movement Error detection |
| | Communication | Communication |
| | N/A | N/A |
| | Features | Features |
| | N/A | N/A |
| | 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 |
| | Functions | Functions |
| | N/A | N/A |
| | Communication | Communication |
| | N/A | N/A |
| Comparable Criteria | | |

| Comments | | Satisfactory explanations received for cuff connectors and sensor/transducer. | |
|----------------------------|-------------------|---|--|
| Recommendation Recommended | | mmended | |
| Date | Date 05 July 2019 | | |

© 2002-2019 dabl®Educational Trust Limited

Page 5 of 5