

# **Declaration of Equivalence Form**

### **DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2011**

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

SECTION A - Please complete all items.							
Name of a	, Name of a Company Director Artsana s.p.a., Company name						
hereby stat	e that th	ere are no differences that will affect blood	d pressure measuring	g accurac	y between the		
Manufacturer Blood pressure r	Artsana neasuring de	spa Brand PiC Solut vice for which validation is claimed. If alternative model nan		Model	Classic Check		
blood press	ure mea	suring device and the					
Manufacturer Existing validate	Artsana d blood pres	spa Brand PiC Solut sure measuring device. If alternative model names are used,		Model	My Check		
blood press as follows:	blood pressure measuring device, which has previously passed the ESH protocol, the results of which were published as follows:						
Gruseppe G Authors(s)	iermano	; Angelos Psimenos; Francesco Sarullo; Ale	ssandro Venditti; Val	erio Pecc	chioli; Roland Asmar		
		utomatic devices for self-measurement of onal Check, Comfort Check, My Check and		ording to	the international Protocol:		
Blood Press Publication	sure		2009 - 18:1,15 - 23. Year Volume Pages				
And the second s		s between the devices involve the following elevant, both Yes and No should be left blank. It is necessary t		n ticked "Yes	" in Section C or on a separate sheet.		
Part I	1	Algorithm for Oscillometric Measurement	ts Ye	es 🗌	No 🖾		
	2	Algorithm for Auscultatory Measurement	s Ye	es 🗌	No 🗌		
	3	Artefact/Error Detection	Ye	es 🗌	No 🖂		
	4	Microphone(s)	Ye	es 🗌	No 🗌		
	5	Pressure Transducer		es 🗌	No 🛛		
	6	Cuff or Bladder		es 🗌	No 🛛		
	7	Inflation Mechanism		es 🗌	No 🛛		
	8	Deflation Mechanism	1000	es 🗌	No 🛛		
Part II	9	Model Name or Number		es 🖂	No 🗌		
	10	Casing		es 🗌 es 🛛	No ⊠ No □		
	11	Display Carrying/Mounting Facilities		es 🔲	No ⊠		
	12 13	Software other than Algorithm		es 🖂	No 🗆		
	14	Memory Capacity/Number of stored mea		es 🛛	No 🗆		
	15	Printing Facilities		es 🔲	No 🗆		
	16	Communication Facilities		es 🔲	No ⊠		
	17	Power Supply		es 🗌	No ⊠		
()	18	Other Facilities		es 🗌	No 🛛		
		nation of each item ticked "Yes" must be	included in Section	C on the	next page		
SECTION B	Com	plete all items, bar signatures and seal, online and pr il a signed copy of this form together with manuals ar	int. Sign and seal it then s	end the or	iginal to our address below. Please		
Signature of Director MERIO MARIO Company Stamp/Seal							
Name MARIO MERLO							
Date	Date						
Signature of Witness / / b							
Name FRANCESCO LO PICCOLO							

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SECTION C

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.

The Classic Check model has the same algorithm and cone cuff of the My Check model for performing the measurement. In the Classic Check model some features are not activated (High Pressure icon and Average) and the memory sectors are 30 instead 120.

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# **Device Equivalence Evaluation Form**

### Comparison of the Artsana Pic Solution Classic Check (200) with the Artsana Pic Solution My Check

Devices	Artsana Pic Solution Classic Check (20	0)	Artsana Pic Solution My Check	
Pictures			Page 80 and and an article of the second sec	
Display	18:88d		SYS.	
Validation			ESH	
Device 1 Criteria				
Same Criteria	Measurement  Accuracy BP accuracy ± 3 mmHg Pulse accuracy ± 5%  Method Oscillometric measurement method Pulse 40 bpm -199 bpm Manually initiated measurements Measurements are from single inflations Inflation Inflation 0 mmHg - 300 mmHg Automatic Inflation Fuzzy Logic	1, 5 1, 5 1, 5, 8 13 13 1, 5, 7	Measurement  Accuracy  BP accuracy ± 3 mmHg  Pulse accuracy ± 5%  Method  Oscillometric measurement method  Pulse 40 bpm -199 bpm  Manually initiated measurements  Measurements are from single inflations  Inflation  Inflation 0 mmHg - 300 mmHg  Automatic Inflation  Fuzzy Logic	1, 5 1, 5 1, 5, 8 13 13 1, 5, 7 7

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Device Equivalence Evaluation Form

Devices	Artsana Pic Solution Classic Check (200)	Artsana Pic Solution My Check  Measurement Inflation		
Same Criteria	Measurement			
	Inflation			
	Zero pressure check before inflation	7	Zero pressure check before inflation	7
	Deflation		Deflation	
	Automatic Deflation	8	Automatic Deflation	8
	Automatic safety release valve	8	Automatic safety release valve	8
	Cuffs		Cuffs	
	Large (Arm circ. 34-46 cm) (Optional)	6	Large (Arm circ. 34-46 cm) (Optional)	6
	Medium (Arm circ. 24 to 36 cm)	6	Medium (Arm circ. 24 to 36 cm)	6
	Small (Arm circ. 18-26 cm) (Optional)	6	Small (Arm circ. 18-26 cm) (Optional)	6
	Sensors	_	Sensors	_
	Pressure sensor: semi conductor	5	Pressure sensor: semi conductor	5
	Buttons/Switches		Buttons/Switches	
	Power		Power	
	On/Off with Start/Stop (O/I Label)	10	On/Off with Start/Stop (O/I Label)	10
	Measurement Records		Measurement Records	
	Memory	10	Memory (shows average on first press)	10
	Settings		Settings	
	Date/Time set (2 buttons: Mode & Plus)	10	Date/Time set (2 buttons: Mode & Plus)	10
	Display/Symbols/Indicators		Display/Symbols/Indicators	
	Measurement Procedure		Measurement Procedure	
	During Measurement: BP Level & Heartbeat Query 2	11	During Measurement: BP Level & Heartbeat Query 2	11
	Post Measurement		Post Measurement	
	SBP, DBP and Pulse	11	SBP, DBP and Pulse	11
	Measurement error EE, EI, E2, E3 & Er	11	Measurement error EE, EI, E2, E3 & Ec	11
	Measurement Records		Measurement Records	
	Memory "M" symbol	11	Memory "M" symbol	11
	Memory recall number	11	Memory recall number	11
	Delete memory (Press memory button for 5 s)	11	Delete memory (Press memory button for 5 s)	11
	Date and Time		Date and Time	
	Date and Time	11	Date and Time	11
	Date and Time (During memory recall)	11	Date and Time (During memory recall)	11
	Power		Power	
	Low battery	11, 17	Low battery	11, 17
	Settings		Settings	
	Recalibrate (EA displayed)	11, 18	Recalibrate (ER displayed)	11, 18
	Casing		Casing	
	Display		Display	

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Device Equivalence Evaluation Form

Devices	Artsana Pic Solution Classic Check (200)	Artsana Pic Solution My Check		
	Single screen display	10	Single screen display	10
	Segment LCD	10	Segment LCD	10
İ	Power		Power	
l	4 "AA" batteries	17	4 "AA" batteries	17
l	AC adapter (Optional)	17	AC adapter (Optional)	17
Comparable Criteria	Measurement Method		Measurement Method	
	BP 40 mmHg - 250 mmHg <sup>Query 1</sup> Measurement Records	1, 5, 7, 8	BP 30 mmHg - 260 mmHg <sup>Query 1</sup> Measurement Records	1, 5, 7, 8
	Memory: 30 measurements	14	Memory: 120 measurements	14
	Casing		Casing	
	Power Automatic switch-off when not used for 1 min	47	Power Automatic switch-off when not used for 4 min	47
	Ports	17	Ports	17
	Data port (Optional USB cable and PC software)	16, 18	Data port (Optional USB cable and PC software)	16, 18
Device 2 Criteria			Display/Symbols/Indicators	
İ			Measurement Procedure	
			Beeps before measurement	18
			Beeps after measurement	18
			Post Measurement	
			Hypertension (triangle)	11, 13
			Average (月 symbol)	11, 13, 14
			Power	
			Charged battery	11, 17
			Algorithms	
			Averages and Differences	4.2
			Last 3 measurements mean  Diagnostic	13
			135 / 85 mmHg thresholds	13
			Case	13
			Features	
			Lid	10

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Device Equivalence Evaluation Form

Comments	Artsana Pic Solution are producing a new "Classic Check" to replace their existing "Classic Check". Though quite different, each is a stripped down version of the "My Check". Some minor queries were clarified satisfactorily.					
		Query	According to the respective manuals, the measurement range for the Artsana PiC Solution My Check is 30 mmHg to 260 mmHg while that for the Artsana PiC Solution Classic Check is 40 mmHg to 250 mmHg. Given that the blood pressure measurement algorithms are identical for both devices, why is there a difference?			
	1	Reply	The Pic Solution "My Check" and the "Classic Check" BPMs use the same measurement algorithm. For marketing strategies we choose to have a narrower visualization range in the "Classic Check" BPM than in the "My Check" BPM. That means that we set different measurement range to display to the end user the blood pressure between 40mmHg and 250 mmHg instead of 30 mmHg and 260 mmHg, but the "Classic Check" BPM measures in the same manner as the "My Check" BPM.			
			We have validated the "My Check" BPM with the ESH protocol in order to demonstrate the clinical accuracy by covering the measurement range from 30~260 mmHg so this range covers also the "Classic Check" range 40~250 mmHg.			
		Comment	Clarification is accepted.			
		Query	The use of the pulse indicator symbol is unclear in both manuals. Is it simply shown beside the pulse when the measurement is being displayed or is it also used during deflation to indicate the occurrence of a pulse?			
	2	Reply	The pulse indicator symbol shows the occurrence of a pulse during the deflation and when the measurement is done it is lighted on to indicate the pulse rate per minute.			
		Comment	Clarification is accepted.			
	3	Query	The name "Classic Check" is identical to that of another model in the Artsana PiC Solution range which is still advertised online and which is recommended on dablEducational.org. We understand the item number of this currently available model is 00 022012 000 100 while that for the model for which this equivalence is sought is 00 022012 000 200. This difference alone is too subtle to be noticed easily by consumers. When the new model is made available, how is it going to be clearly distinguishable from the current model for the consumer and, should equivalence be approved, for display on dablEducational.org?			
		Reply	The new Classic Check is going to be clearly distinguishable from the consumer, because the current Classic Check will be replaced by the new model.			
		Comment	This is essentially a marketing issue. However, the models will be distinguished clearly on the dablEducational.org website.			
Recommendation	Equivalence is recommended					
Date	03/11/2011					

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