

Certificate No.

23BMEP3DEC12230159

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Certificate of Calibration

EQUIPMENT : MODULE, ECG/SPO2/NIBP

ID CODE : PYT3_05400

MANUFACTURER : PHILIPS

MODEL : M3001A

SERIAL No. : DE5630FFVWG

LOCATION : LABOR ROOM(ห้องคลอด)

SUBMITTED BY : PHYATHAI 3 HOSPITAL

111 Phet Kasem Rd., Pak Khlong Phasi Charoen, Phasi Charoen Bangkok 10160

Tel: 0641470591 Fax: -

CALIBRATED DATE : 13 DECEMBER 2023

PANALEE UEASUNTHONNOP

ISSUE DATE : 2 JANUARY 2024

Performed by:

Approved by:

CHAIWAT SALAIWONG

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CONDITION OF THIS RESULT OF TEST

1. REFERENCE STANDARD INSTRUMENT:

MASTERMANUFACTURERMODELSERIAL NO.CERTIFICATE NO.DUE DATETester, Vital SignFLUKEPROSIM 8570205923MD46517 Apr 2024

Simulator

2. THIS CERTIFICATION IS TRACEABLE TO:

- Technology Promotion Association (Thai-Japan)

3. THIS RESULT OF TEST WAS FOUND ACCURATE AS SHOW ON DATE AND PLACE OF TEST ONLY



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Calibration Report

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DATE OF CALIBRATION : 13 DECEMBER 2023

ENVIRONMENT : TEMPERATURE 25 °C

RELATIVE HUMIDITY 55 %

PROCEDURE USED:

This instrument was calibration by comparison with standard

MEASURMENT RESULT:

/	Without Adjustment		Before Adjustment		After Adjustment
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Systolic						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)		
60	60.97	0.97	1.61	± 0.9241		
120	117.04	-2.96	-2.47	± 1.2705		
200	194.02	-5.98	-2.99	± 1.7323		

Diastolic						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)		
30	37.02	7.02	23.41	± 0.7524		
80	86.75	6.75	8.44	± 1.1830		
150	154.03	4.03	2.68	± 1.4440		

Heart Rate						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(BPM)	(BPM)	(BPM)	(%)	(BPM)		
60	60.00	0.00	0.00	± 0.0757		
80	80.01	0.01	0.01	± 0.0848		
120	118.98	-1.02	-0.85	± 0.0591		

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%Spo2						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(%SPO ₂)	(%SPO ₂)	(%SPO ₂)	(%)	(%SPO ₂)		
90	90.02	0.02	0.02	± 0.1084		
96	96.02	0.02	0.02	± 0.1145		
100	99.99	-0.01	-0.01	± 0.1229		

UUC*: Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95%

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