

Certificate No.

23BMEP3DEC12230026

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Certificate of Calibration

EQUIPMENT : MODULE, ECG/SPO2/NIBP

ID CODE : PYT3_00454

MANUFACTURER : PHILIPS

MODEL : M3001A

SERIAL No. : DE9070A8H0

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	59.00	-1.00	-1.67	± 0.9238		
120	114.00	-6.00	-5.00	± 1.2702		
200	194.00	-6.00	-3.00	± 1.7321		

Diastolic						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)		
30	31.00	1.00	3.33	± 0.7506		
80	80.00	0.00	0.00	± 1.0393		
150	145.00	-5.00	-3.33	± 1.4434		

Heart Rate						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(BPM)	(BPM)	(BPM)	(%)	(BPM)		
60	60.00	0.00	0.00	± 0.0250		
80	80.00	0.00	0.00	± 0.0460		
120	120.00	0.00	0.00	± 0.0460		

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%Spo2						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(%SPO ₂)	(%SPO ₂)	(%SPO ₂)	(%)	(%SPO ₂)		
90	90.00	0.00	0.00	± 0.1039		
96	97.00	1.00	1.04	± 0.1109		
100	100.00	0.00	0.00	± 0.1155		

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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