

Certificate No.

23BMEP3DEC12230132

Page 1 of 3

Certificate of Calibration

EQUIPMENT : MODULE, ECG/SPO2/NIBP

ID CODE : PYT3_00833

MANUFACTURER : PHILIPS

MODEL : M3001A

SERIAL No. : DE9070B7TP

LOCATION : GASTROINTESTINAL LABORATORY(GI)

SUBMITTED BY : PHYATHAI 3 HOSPITAL

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

Tel: 0641470591 Fax: -

CALIBRATED DATE : 19 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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Page 2 of 3

Calibration Report

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DATE OF CALIBRATION : 19 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	59.03	-0.98	-1.63	± 0.9245		
120	116.97	-3.03	-2.53	± 1.2705		
200	199.01	-0.99	-0.50	± 1.7326		

Diastolic						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)		
30	32.03	2.03	6.75	± 0.7518		
80	80.02	0.02	0.02	± 1.0402		
150	148.99	-1.01	-0.67	± 1.4436		

Heart Rate						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(BPM)	(BPM)	(BPM)	(%)	(BPM)		
60	59.99	-0.01	-0.01	± 0.0665		
80	79.97	-0.03	-0.04	± 0.0640		
120	120.02	0.02	0.01	± 0.0900		

FI-BME-NHS-CP-007/1 Rev.03 Page 2/3 Issued Date 20/07/2023



Certificate No. 23BMEP3DEC12230132

Page 3 of 3

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%Spo2						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(%SPO ₂)	(%SPO ₂)	(%SPO ₂)	(%)	(%SPO ₂)		
90	90.03	0.03	0.03	± 0.1066		
96	97.03	1.03	1.07	± 0.1131		
100	100.01	0.01	0.01	± 0.1180		

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%

FI-BME-NHS-CP-007/1 Rev.03 Page 3/3 Issued Date 20/07/2023