

Certificate No.

24PTP_0104240178

Page 1 of 2

Certificate of Calibration

EQUIPMENT :	MODULE,	ECG/SPO2/NIBP/IBP/TEMP
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ID CODE : PTP00473

MANUFACTURER : PHILIPS

MODEL : M3012A

SERIAL No. : DE83748187

LOCATION : I.C.U

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

670/1 Phaholyothin Road, Samsen Nai, Phaya Thai, Bangkok 10400

Tel: 02-271-7000 Fax: -

CALIBRATED DATE : 19 APRIL 2024

ISSUE DATE : 3 MAY 2024

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Performed by : Approved by : PHUWASIN YIWKIM

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CONDITION OF THIS RESULT OF TEST

1. REFERENCE STANDARD INSTRUMENT:

MASTERMANUFACTURERMODELSERIAL NO.CERTIFICATE NO.DUE DATEVitalsign SimulatorFlukeProSim8254103123MD7777 Jun 2024

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 2

Calibration Report

EQUIPMENT : MODULE, ECG/SPO2/NIBP/IBP/TEMP

ID CODE : PTP00473

MANUFACTURER : PHILIPS

MODEL : M3012A

SERIAL No. : DE83748187

DATE OF CALIBRATION : 19 APRIL 2024

ENVIRONMENT : TEMPERATURE 24 °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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Temperature				
Standard Setting	UUC* Reading	Error	% Error	Uncertainty
(°C)	(°C)	(°C)	(%)	(°C)
35	35.00	0.00	0.00	± 0.0051
37	37.00	0.00	0.00	± 0.0051
39	39.00	0.00	0.00	± 0.0055

Systolic(IBP)				
Standard Setting	UUC* Reading	Error	% Error	Uncertainty
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)
10	10.00	0.00	0.00	± 0.1155
24	24.00	0.00	0.00	± 0.2771
120	120.00	0.00	0.00	± 1.3857

Diastolic(IBP)				
Standard Setting	UUC* Reading	Error	% Error	Uncertainty
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)
2	2.00	0.00	0.00	± 0.0231
10	10.00	0.00	0.00	± 0.1155
80	80.00	0.00	0.00	± 0.9238

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-029/1 Rev.03 Page 2/2 Issued Date 20/07/2023