

Certificate No.

24PTP_0104240130

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Certificate of Calibration

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

ID CODE : PTP02719

MANUFACTURER : PHILIPS

MODEL : M3012A

SERIAL No. : DE83753516

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 : 18 APRIL 2024

ISSUE DATE : 3 MAY 2024

Performed by: App

Approved by :

USANEE CHALONGPHOKSILCHAI 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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Calibration Report

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

ID CODE : PTP02719

MANUFACTURER : PHILIPS

MODEL : M3012A

SERIAL No. : DE83753516

DATE OF CALIBRATION : 18 APRIL 2024

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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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%