

Certificate No.

24PTP_0104240290

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Certificate of Calibration

EQUIPMENT : MONITORS, BEDSIDE, PHYSIOLOGIC

ID CODE : PTP00664

MANUFACTURER : NIHON KOHDEN

MODEL : BSM-6301K

SERIAL No. : 3152

LOCATION : Operating Room

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

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

Tel: 02-271-7000 Fax: -

CALIBRATED DATE : 24 APRIL 2024

ISSUE DATE : 3 MAY 2024

Performed by:

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 : MONITORS, BEDSIDE, PHYSIOLOGIC

ID CODE : PTP00664

MANUFACTURER : NIHON KOHDEN

MODEL : BSM-6301K

SERIAL No. : 3152

DATE OF CALIBRATION : 24 APRIL 2024

ENVIRONMENT : TEMPERATURE 22 °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(NIBP)				
Standard Setting	UUC* Reading	Error	% Error	Uncertainty
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)
60	62.00	2.00	3.33	± 0.9238
120	122.00	2.00	1.67	± 1.2702
200	200.00	0.00	0.00	± 1.7321

Diastolic(NIBP)					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)	
30	34.00	4.00	13.33	± 0.7506	
80	82.00	2.00	2.50	± 1.0393	
150	154.00	4.00	2.67	± 1.4434	

Heart Rate						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(BPM)	(BPM)	(BPM)	(%)	(BPM)		
60	60.00	0.00	0.00	± 0.0150		
80	80.00	0.00	0.00	± 0.0460		
120	120.00	0.00	0.00	± 0.0460		

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EQUIPMENT : MONITORS, BEDSIDE, PHYSIOLOGIC

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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	96.00	0.00	0.00	± 0.1109		
100	100.00	0.00	0.00	± 0.1155		

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	

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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