

Certificate No.

24PYT3_DEC12240011

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Certificate of Calibration

EQUIPMENT : MONITORS, PHYSIOLOGIC, VITAL SIGNS

ID CODE : PYT3_05557

MANUFACTURER : PHILIPS

MODEL : SURESIGNS VS4

SERIAL No. : CN42749558

LOCATION : DIABETIC&METABOLIC(เบาหวาน)

SUBMITTED BY : PHYATHAI 3 HOSPITAL

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

Tel: (662) 467-1111 Fax: (622) 467-1111

CALIBRATED DATE : 1 DECEMBER 2024

ISSUE DATE : 30 DECEMBER 2024

Performed by:		Approved by :	1
	SOM KONKA FW		DUKADIN TONGKI IANG

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CONDITION OF THIS RESULT OF TEST

1. REFERENCE STANDARD INSTRUMENT:

MASTERMANUFACTURERMODELSERIAL NO.CERTIFICATE NO.DUE DATETester, Vital SignFLUKEPROSIM 8570205924MD54530 Apr 2025

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 : 1 DECEMBER 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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Systolic					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)	
60	60.99	0.98	1.64	± 0.0438	
120	119.00	-1.00	-0.83	± 0.0341	
200	192.98	-7.02	-3.51	± 0.0579	

Diastolic					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)	
30	33.01	3.01	10.03	± 0.0135	
80	82.02	2.02	2.52	± 0.0595	
150	143.99	-6.02	-4.01	± 0.0641	

Heart Rate					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(BPM)	(BPM)	(BPM)	(%)	(BPM)	
60	60.02	0.02	0.03	± 0.0665	
80	80.00	0.00	0.00	± 0.1149	
120	120.01	0.01	0.01	± 0.1251	

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% Spo2					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(%SPO ₂)	(%SPO ₂)	(%SPO ₂)	(%)	(%SPO ₂)	
90	90.97	0.97	1.08	± 0.0358	
96	97.02	1.02	1.06	± 0.0287	
100	99.96	-0.04	-0.04	± 0.0639	

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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