

Certificate No.

24PYT3_DEC12240148

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Certificate of Calibration

EQUIPMENT : MONITORS, PHYSIOLOGIC, VITAL SIGNS

ID CODE : PYT3_05559

MANUFACTURER : PHILIPS

MODEL : SURESIGNS VS4

SERIAL No. : CN42749552

LOCATION : OPD CARDIO(ศูนย์หัวใจ) (ตรงที่ซังน้ำหนักวัดส่วนสูง)

SUBMITTED BY : PHYATHAI 3 HOSPITAL

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

0200

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

CALIBRATED DATE : 13 DECEMBER 2024
ISSUE DATE : 30 DECEMBER 2024

Performed by:		Approved by :	1
	SOM KONKA FW		PUKARIN TONGKUANG

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CONDITION OF THIS RESULT OF TEST

1. REFERENCE STANDARD INSTRUMENT:

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

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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SERIAL No. : CN42749552

DATE OF CALIBRATION : 13 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	62.98	2.98	4.97	± 0.0822	
120	118.01	-2.00	-1.66	± 0.0816	
200	195.75	-4.25	-2.13	± 2.8265	

Diastolic					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)	
30	33.97	3.97	13.23	± 0.0358	
80	79.01	-0.99	-1.24	± 0.0978	
150	146.04	-3.96	-2.64	± 0.0625	

Heart Rate					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(BPM)	(BPM)	(BPM)	(%)	(BPM)	
60	60.03	0.03	0.04	± 0.0566	
80	80.00	-0.00	-0.01	± 0.1166	
120	120.01	0.01	0.01	± 0.1190	

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%Spo2					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(%SPO ₂)	(%SPO ₂)	(%SPO ₂)	(%)	(%SPO ₂)	
90	91.01	1.01	1.12	± 0.0648	
96	96.98	0.98	1.02	± 0.0523	
100	100.00	0.00	0.00	± 0.0769	

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%