

Certificate No.

24PYT3_DEC12240110

Page 1 of 3

Certificate of Calibration

EQUIPMENT : MONITORS, PHYSIOLOGIC, VITAL SIGNS

ID CODE : PYT3_05612

MANUFACTURER : PHILIPS

MODEL : SURESIGNS VS4

SERIAL No. : CN42755257

LOCATION : OPD NEURO (ศูนย์สมอง)

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 : 3 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 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



Certificate No. 24PYT3_DEC12240110

Page 2 of 3

Calibration Report

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SERIAL No. : CN42755257

DATE OF CALIBRATION : 3 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	60.00	0.00	0.00	± 0.0694	
120	119.00	-1.00	-0.83	± 0.0769	
200	193.01	-6.99	-3.49	± 0.0837	

Diastolic					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)	
30	31.98	1.98	6.61	± 0.0579	
80	83.96	3.96	4.95	± 0.0435	
150	145.00	-5.00	-3.33	± 0.0974	

Heart Rate					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(BPM)	(BPM)	(BPM)	(%)	(BPM)	
60	59.98	-0.02	-0.03	± 0.0474	
80	79.99	-0.01	-0.01	± 0.1145	
120	119.02	-0.98	-0.82	± 0.1114	

FI-BME-NHS-CP-007/1 Rev.04 Page 2/3 Issued Date 20/07/2024



Certificate No. 24PYT3_DEC12240110

Page 3 of 3

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%Spo2					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(%SPO ₂)	(%SPO ₂)	(%SPO ₂)	(%)	(%SPO ₂)	
90	89.99	-0.02	-0.02	± 0.0641	
96	96.04	0.04	0.04	± 0.0512	
100	99.98	-0.02	-0.02	± 0.0579	

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-007/1 Rev.04 Page 3/3 Issued Date 20/07/2024