

Certificate No.

24PYT3\_DEC12240119

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### **Certificate of Calibration**

EQUIPMENT : MONITORS, PHYSIOLOGIC, VITAL SIGNS

ID CODE : PYT3\_05558

MANUFACTURER : PHILIPS

MODEL : SURESIGNS VS4

SERIAL No. : CN42749677

LOCATION : PWA LIFE CENTER (counter PBC)

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 : 4 DECEMBER 2024
ISSUE DATE : 30 DECEMBER 2024

Performed by:	/	Approved by :	
	SOM KONKAEW		PUKARIN TONGKLIANG

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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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MODEL : SURESIGNS VS4

SERIAL No. : CN42749677

DATE OF CALIBRATION : 4 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	± 0.0589	
120	117.98	-2.02	-1.68	± 0.0707	
200	195.99	-4.01	-2.01	± 0.1142	

Diastolic					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)	
30	30.99	0.98	3.28	± 0.0770	
80	78.99	-1.01	-1.27	± 0.0579	
150	144.02	-5.98	-3.99	± 0.0822	

Heart Rate					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(BPM)	(BPM)	(BPM)	(%)	(BPM)	
60	60.02	0.02	0.03	± 0.0267	
80	79.98	-0.02	-0.03	± 0.1159	
120	120.03	0.03	0.03	± 0.1134	

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%Spo2					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(%SPO <sub>2</sub> )	(%SPO <sub>2</sub> )	(%SPO <sub>2</sub> )	(%)	(%SPO <sub>2</sub> )	
90	91.00	1.00	1.11	± 0.0696	
96	97.01	1.01	1.05	± 0.0438	
100	100.00	0.00	0.00	± 0.0270	

#### **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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