

Certificate No.

24PYT3\_DEC12240013

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### **Certificate of Calibration**

EQUIPMENT : MONITORS, PHYSIOLOGIC, VITAL SIGNS

ID CODE : PYT3\_05656

MANUFACTURER : PHILIPS

MODEL : SURESIGNS VS4

SERIAL No. : CN42749644

LOCATION : CHECK-UP (ตรวจสุขภาพ)

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 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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ID CODE : PYT3\_05656

MANUFACTURER : PHILIPS

MODEL : SURESIGNS VS4

SERIAL No. : CN42749644

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	63.00	3.00	4.99	± 0.0549
120	119.97	-0.03	-0.03	± 0.0515
200	199.02	-0.98	-0.49	± 0.0676

Diastolic				
Standard Setting	UUC* Reading	Error	% Error	Uncertainty
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)
30	33.02	3.02	10.05	± 0.0770
80	82.01	2.01	2.52	± 0.1032
150	150.01	0.01	0.01	± 0.0776

Heart Rate					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(BPM)	(BPM)	(BPM)	(%)	(BPM)	
60	59.98	-0.02	-0.03	± 0.0369	
80	80.00	-0.00	-0.01	± 0.1149	
120	119.97	-0.03	-0.02	± 0.1241	

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EQUIPMENT : MONITORS, PHYSIOLOGIC, VITAL SIGNS

ID CODE : PYT3\_05656 SERIAL No. : CN42749644

%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	90.01	0.01	0.01	± 0.0752
96	96.01	0.00	0.01	± 0.0438
100	99.98	-0.02	-0.02	± 0.0792

#### **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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