

Certificate No.

24PYT3\_DEC12240076

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### **Certificate of Calibration**

EQUIPMENT : MONITORS, PHYSIOLOGIC, VITAL SIGNS

ID CODE : PYT3\_05566

MANUFACTURER : PHILIPS

MODEL : SURESIGNS VS4

SERIAL No. : CN42749553

LOCATION : OPD COUNTER NURSE (CN คัดกรอง)

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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MODEL : SURESIGNS VS4

SERIAL No. : CN42749553

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	± 0.0734	
120	120.00	-0.00	-0.00	± 0.0475	
200	194.99	-5.01	-2.50	± 0.0283	

Diastolic					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)	
30	32.00	2.00	6.67	± 0.0475	
80	82.03	2.03	2.53	± 0.0438	
150	143.00	-7.00	-4.67	± 0.0283	

Heart Rate					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(BPM)	(BPM)	(BPM)	(%)	(BPM)	
60	60.02	0.02	0.03	± 0.0565	
80	80.01	0.01	0.01	± 0.1104	
120	119.00	-1.00	-0.84	± 0.1249	

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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	91.01	1.01	1.13	± 0.1024
96	97.02	1.02	1.06	± 0.0648
100	100.00	0.00	0.00	± 0.0547

#### **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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