

Certificate No.

24PYT3\_DEC12240081

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### **Certificate of Calibration**

EQUIPMENT : MONITORS, BEDSIDE, PHYSIOLOGIC

ID CODE : PYT3\_00100

MANUFACTURER : PHILIPS

MODEL : SURESIGNS VM4

SERIAL No. : US72012117

LOCATION : ANESTHESIA (วิสัญญี่)

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 : PUKARIN TONGKLIANG

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 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**

**EQUIPMENT** : MONITORS, BEDSIDE, PHYSIOLOGIC

ID CODE : PYT3\_00100

MANUFACTURER : PHILIPS

: SURESIGNS VM4 **MODEL** 

SERIAL No. : US72012117

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	60.96	0.95	1.59	± 0.0497		
120	116.98	-3.02	-2.52	± 0.0757		
200	197.01	-3.00	-1.50	± 0.0394		

Diastolic						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)		
30	32.00	2.00	6.67	± 0.0745		
80	84.99	4.99	6.24	± 0.0707		
150	154.00	4.00	2.67	± 0.0589		

Heart Rate						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(BPM)	(BPM)	(BPM)	(%)	(BPM)		
60	59.99	-0.01	-0.01	± 0.1100		
80	80.01	0.00	0.01	± 0.1166		
120	120.01	0.01	0.01	± 0.1140		

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EQUIPMENT : MONITORS, BEDSIDE, PHYSIOLOGIC

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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	89.99	-0.02	-0.02	± 0.0287		
96	94.99	-1.01	-1.05	± 0.0487		
100	98.97	-1.04	-1.04	± 0.0394		

#### **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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