

Certificate No.

24PYT3_DEC12240115

Page 1 of 3

Certificate of Calibration

EQUIPMENT : MONITORS, PATIENT TRANSPORT

ID CODE : PYT3_00590

MANUFACTURER : PHILIPS

MODEL : SURESIGNS VS3

SERIAL No. : US72002385

LOCATION : EMERGENCY(ฉุกเฉิน) (bed 7)

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



Certificate No. 24PYT3_DEC12240115

Page 2 of 3

Calibration Report

EQUIPMENT : MONITORS, PATIENT TRANSPORT

ID CODE : PYT3_00590

MANUFACTURER : PHILIPS

MODEL : SURESIGNS VS3

SERIAL No. : US72002385

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 |
|---|--------------------|--|-------------------|--|------------------|
|---|--------------------|--|-------------------|--|------------------|

| Systolic | | | | |
|------------------|--------------|--------|---------|-------------|
| Standard Setting | UUC* Reading | Error | % Error | Uncertainty |
| (mmHg) | (mmHg) | (mmHg) | (%) | (mmHg) |
| 60 | 62.01 | 2.01 | 3.35 | ± 0.0191 |
| 120 | 125.01 | 5.01 | 4.18 | ± 0.1032 |
| 200 | 197.00 | -3.00 | -1.50 | ± 0.0547 |

| Diastolic | | | | | |
|------------------|--------------|--------|---------|-------------|--|
| Standard Setting | UUC* Reading | Error | % Error | Uncertainty | |
| (mmHg) | (mmHg) | (mmHg) | (%) | (mmHg) | |
| 30 | 33.98 | 3.98 | 13.27 | ± 0.0589 | |
| 80 | 87.02 | 7.02 | 8.77 | ± 0.0694 | |
| 150 | 156.00 | 6.00 | 4.00 | ± 0.0694 | |

| Heart Rate | | | | | |
|------------------|--------------|-------|---------|-------------|--|
| Standard Setting | UUC* Reading | Error | % Error | Uncertainty | |
| (BPM) | (BPM) | (BPM) | (%) | (BPM) | |
| 60 | 60.03 | 0.03 | 0.05 | ± 0.0935 | |
| 80 | 80.01 | 0.01 | 0.02 | ± 0.1177 | |
| 120 | 120.01 | 0.01 | 0.01 | ± 0.1140 | |

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



Certificate No. 24PYT3_DEC12240115

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 | 91.00 | 1.00 | 1.11 | ± 0.0950 | |
| 96 | 97.03 | 1.03 | 1.07 | ± 0.0405 | |
| 100 | 100.02 | 0.02 | 0.02 | ± 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%

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