

Certificate No.

24PYT3\_DEC12240120

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### **Certificate of Calibration**

EQUIPMENT : MONITORS, BEDSIDE, PHYSIOLOGIC

ID CODE : PYT3\_02311

MANUFACTURER : PHILIPS

MODEL : INTELLIVUE MP5(M8105A)

SERIAL No. : DE21073031

LOCATION : EMERGENCY( ฉุกเฉิน) (bed 3)

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

In

| Performed by: |             | Approved by : | 1                   |  |
|---------------|-------------|---------------|---------------------|--|
|               | SOM KONKAFW |               | PUKARIN TONGKI IANG |  |

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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\_02311

MANUFACTURER : PHILIPS

MODEL : INTELLIVUE MP5(M8105A)

SERIAL No. : DE21073031

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               | 61.01        | 1.01   | 1.68    | ± 0.0625    |
| 120              | 117.99       | -2.01  | -1.68   | ± 0.0158    |
| 200              | 197.00       | -3.01  | -1.50   | ± 0.0287    |

| Diastolic        |              |        |         |             |
|------------------|--------------|--------|---------|-------------|
| Standard Setting | UUC* Reading | Error  | % Error | Uncertainty |
| (mmHg)           | (mmHg)       | (mmHg) | (%)     | (mmHg)      |
| 30               | 30.99        | 0.99   | 3.29    | ± 0.0208    |
| 80               | 77.99        | -2.01  | -2.52   | ± 0.0770    |
| 150              | 151.99       | 1.99   | 1.33    | ± 0.0906    |

| Heart Rate       |              |       |         |             |  |
|------------------|--------------|-------|---------|-------------|--|
| Standard Setting | UUC* Reading | Error | % Error | Uncertainty |  |
| (BPM)            | (BPM)        | (BPM) | (%)     | (BPM)       |  |
| 60               | 59.97        | -0.03 | -0.05   | ± 0.0361    |  |
| 80               | 79.99        | -0.01 | -0.01   | ± 0.1183    |  |
| 120              | 120.00       | 0.00  | 0.00    | ± 0.1139    |  |

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# **Calibration Report**

EQUIPMENT : MONITORS, BEDSIDE, PHYSIOLOGIC

ID CODE : PYT3\_02311 SERIAL No. : DE21073031

| %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                   | 90.98                | 0.98                 | 1.09    | ± 0.0512             |
| 96                   | 96.75                | 0.75                 | 0.78    | ± 0.8275             |
| 100                  | 100.00               | 0.00                 | 0.00    | ± 0.0880             |

#### **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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