

Certificate No.

24PYT3\_DEC12240019

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### **Certificate of Calibration**

EQUIPMENT : MONITORS, PHYSIOLOGIC, VITAL SIGNS

ID CODE : PYT3\_00862

MANUFACTURER : WELCH ALLYN

MODEL : 53N00

SERIAL No. : JA110861

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 : PUKARIN TONGKLIANG

SOM KONKAEW PUKARIN TONGKLIANG

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### **CONDITION OF THIS RESULT OF TEST**

#### 1. REFERENCE STANDARD INSTRUMENT:

MASTER MANUFACTURER MODEL SERIAL NO. CERTIFICATE NO. DUE DATE
Tester, Vital Sign FLUKE PROSIM 8 5702059 24MD545 30 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**

EQUIPMENT : MONITORS, PHYSIOLOGIC, VITAL SIGNS

ID CODE : PYT3\_00862

MANUFACTURER : WELCH ALLYN

MODEL : 53N00

SERIAL No. : JA110861

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

| Systolic         |              |        |         |             |  |  |
|------------------|--------------|--------|---------|-------------|--|--|
| Standard Setting | UUC* Reading | Error  | % Error | Uncertainty |  |  |
| (mmHg)           | (mmHg)       | (mmHg) | (%)     | (mmHg)      |  |  |
| 60               | 63.97        | 3.97   | 6.61    | ± 0.0478    |  |  |
| 120              | 119.02       | -0.98  | -0.82   | ± 0.0394    |  |  |
| 200              | 198.03       | -1.98  | -0.99   | ± 0.0901    |  |  |

| Diastolic        |              |        |         |             |  |
|------------------|--------------|--------|---------|-------------|--|
| Standard Setting | UUC* Reading | Error  | % Error | Uncertainty |  |
| (mmHg)           | (mmHg)       | (mmHg) | (%)     | (mmHg)      |  |
| 30               | 31.99        | 1.99   | 6.62    | ± 0.0515    |  |
| 80               | 85.98        | 5.98   | 7.48    | ± 0.0996    |  |
| 150              | 153.99       | 3.99   | 2.66    | ± 0.0826    |  |

| Heart Rate       |              |       |         |             |  |  |
|------------------|--------------|-------|---------|-------------|--|--|
| Standard Setting | UUC* Reading | Error | % Error | Uncertainty |  |  |
| (BPM)            | (BPM)        | (BPM) | (%)     | (BPM)       |  |  |
| 60               | 60.00        | 0.00  | 0.00    | ± 0.0864    |  |  |
| 80               | 79.98        | -0.02 | -0.02   | ± 0.1246    |  |  |
| 120              | 120.02       | 0.02  | 0.02    | ± 0.1149    |  |  |

### **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%