

Certificate No.

24PTP\_0104240026

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### **Certificate of Calibration**

EQUIPMENT : MONITORS, PHYSIOLOGIC, VITAL SIGNS

ID CODE : PTP02200

MANUFACTURER : CRITICARE

MODEL : 506DN

SERIAL No. : 113054335

LOCATION : Emergency & Ambulance

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

670/1 Phaholyothin Road, Samsen Nai, Phaya Thai, Bangkok 10400

Tel: 02-271-7000 Fax: -

CALIBRATED DATE : 16 APRIL 2024

ISSUE DATE : 1 MAY 2024

Performed by:

Approved by :

USANEE CHALONGPHOKSILCHAI

PHUWASIN YIWKIM

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

### 1. REFERENCE STANDARD INSTRUMENT:

MASTERMANUFACTURERMODELSERIAL NO.CERTIFICATE NO.DUE DATEVitalsign SimulatorFlukeProSim8254103123MD7777 Jun 2024

#### 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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MANUFACTURER : CRITICARE

MODEL : 506DN

SERIAL No. : 113054335

DATE OF CALIBRATION : 16 APRIL 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               | 60.00        | 0.00   | 0.00    | ± 0.9238    |  |  |
| 120              | 116.00       | -4.00  | -3.33   | ± 1.2702    |  |  |
| 200              | 194.00       | -6.00  | -3.00   | ± 1.7321    |  |  |

| Diastolic        |              |        |         |             |  |  |
|------------------|--------------|--------|---------|-------------|--|--|
| Standard Setting | UUC* Reading | Error  | % Error | Uncertainty |  |  |
| (mmHg)           | (mmHg)       | (mmHg) | (%)     | (mmHg)      |  |  |
| 30               | 36.00        | 6.00   | 20.00   | ± 0.7506    |  |  |
| 80               | 80.00        | 0.00   | 0.00    | ± 1.0393    |  |  |
| 150              | 153.00       | 3.00   | 2.00    | ± 1.4434    |  |  |

| Heart Rate       |              |       |         |             |  |  |
|------------------|--------------|-------|---------|-------------|--|--|
| Standard Setting | UUC* Reading | Error | % Error | Uncertainty |  |  |
| (BPM)            | (BPM)        | (BPM) | (%)     | (BPM)       |  |  |
| 60               | 60.00        | 0.00  | 0.00    | ± 0.0150    |  |  |
| 80               | 80.00        | 0.00  | 0.00    | ± 0.0460    |  |  |
| 120              | 120.00       | 0.00  | 0.00    | ± 0.0460    |  |  |



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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                   | 90.00                | 0.00                 | 0.00    | ± 0.1039             |  |  |
| 96                   | 96.00                | 0.00                 | 0.00    | ± 0.1109             |  |  |
| 100                  | 99.00                | -1.00                | -1.00   | ± 0.1155             |  |  |

#### **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%