

Certificate No.

24PTP\_0104240011

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## **Certificate of Calibration**

EQUIPMENT : MONITORS, PHYSIOLOGIC, VITAL SIGNS

ID CODE : PTP03480

MANUFACTURER : WELCH ALLYN

MODEL : CONNEX SPOT MONITOR

SERIAL No. : 100015354217

LOCATION : General Medicine

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 : 30 APRIL 2024

	Usanee
Performed by:	

USANEE CHALONGPHOKSILCHAI

Approved by:

proved by ·

PHUWASIN YIWKIM

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

#### 1. REFERENCE STANDARD INSTRUMENT:

MASTER MANUFACTURER MODEL SERIAL NO. CERTIFICATE NO. DUE DATE 7 Jun 2024 Vitalsign Simulator Fluke ProSim8 2541031 23MD777 ATC-140A 12 Jul 2024 Temperature Ametex 561460-00403 WB23062779 Calibrator (Source)

### 2. THIS CERTIFICATION IS TRACEABLE TO:

- Technology Promotion Association (Thai-Japan)
- N-Health

# 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 : PTP03480

MANUFACTURER : WELCH ALLYN

MODEL : CONNEX SPOT MONITOR

SERIAL No. : 100015354217

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
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Systolic				
Standard Setting	UUC* Reading	Error	% Error	Uncertainty
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)
60	61.00	1.00	1.67	± 0.9238
120	117.00	-3.00	-2.50	± 1.2702
200	203.00	3.00	1.50	± 1.7321

Diastolic				
Standard Setting	UUC* Reading	Error	% Error	Uncertainty
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)
30	36.00	6.00	20.00	± 0.7506
80	86.00	6.00	7.50	± 1.0393
150	156.00	6.00	4.00	± 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	119.00	-1.00	-0.83	± 0.0460	

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EQUIPMENT : MONITORS, PHYSIOLOGIC, VITAL SIGNS

ID CODE : PTP03480

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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	100.00	0.00	0.00	± 0.1155

Temperature					
UUC* Setting	Standard Reading	Error	% Error	Uncertainty	
(°C)	(°C)	(°C)	(%)	(°C)	
35	35.00	0.00	0.00	± 0.3100	
37	36.90	-0.10	-0.27	± 0.3100	
39	38.90	-0.10	-0.26	± 0.3100	

### **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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