

Certificate No. 24PTP_0104240337

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Certificate of Calibration

EQUIPMENT MONITORS, PHYSIOLOGIC, VITAL SIGNS

ID CODE PTP03792

MANUFACTURER WELCH ALLYN

MODEL CONNEX SPOT MONITOR

SERIAL No. 100073792020

LOCATION Let's Talk

SUBMITTED BY PHYATHAI PHAHOLYOTHIN HOSPITAL

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

Tel: 02-271-7000 Fax: -

CALIBRATED DATE 26 APRIL 2024 **ISSUE DATE** 30 APRIL 2024

9	patcha	
UU	parcha	

Performed by: Approved by: SUPATCHA BUAPUEAN

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 : PTP03792

MANUFACTURER : WELCH ALLYN

MODEL : CONNEX SPOT MONITOR

SERIAL No. : 100073792020

DATE OF CALIBRATION : 26 APRIL 2024

ENVIRONMENT : TEMPERATURE 24 °C

RELATIVE HUMIDITY 56 %

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	62.50	2.50	4.17	± 1.1275
120	116.75	-3.25	-2.71	± 1.6940
200	199.25	-0.75	-0.38	± 2.4861

Diastolic					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)	
30	35.75	5.75	19.17	± 0.9425	
80	81.25	1.25	1.56	± 1.5544	
150	145.75	-4.25	-2.83	± 1.5276	

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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EQUIPMENT : MONITORS, PHYSIOLOGIC, VITAL SIGNS

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%Spo2				
Standard Setting	UUC* Reading	Error	% Error	Uncertainty
(%SPO ₂)	(%SPO ₂)	(%SPO ₂)	(%)	(%SPO ₂)
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	34.83	-0.18	-0.50	± 0.3140
37	36.83	-0.17	-0.47	± 0.3140
39	38.85	-0.15	-0.38	± 0.3153

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.03 Page 3/3 Issued Date 20/07/2023