

Certificate No.

24PYT3_DEC12240101

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Certificate of Calibration

EQUIPMENT : MONITORS, PHYSIOLOGIC, VITAL SIGNS

ID CODE : PYT3_01222

MANUFACTURER : WELCH ALLYN

MODEL : 53N0P

SERIAL No. : JA041274

LOCATION : X-RAY

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 : 3 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:

MASTERMANUFACTURERMODELSERIAL NO.CERTIFICATE NO.DUE DATETester, Vital SignFLUKEPROSIM 8570205924MD54530 Apr 2025Simulator

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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DATE OF CALIBRATION : 3 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
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Systolic						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)		
60	63.01	3.01	5.02	± 0.0788		
120	121.05	1.05	0.87	± 0.0565		
200	195.01	-4.99	-2.50	± 0.0890		

Diastolic						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)		
30	32.97	2.97	9.91	± 0.0757		
80	85.98	5.98	7.48	± 0.0283		
150	149.03	-0.97	-0.65	± 0.0456		

Heart Rate						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(BPM)	(BPM)	(BPM)	(%)	(BPM)		
60	60.01	0.01	0.01	± 0.0388		
80	79.99	-0.02	-0.02	± 0.1143		
120	119.98	-0.02	-0.02	± 0.1163		

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%Spo2						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(%SPO ₂)	(%SPO ₂)	(%SPO ₂)	(%)	(%SPO ₂)		
90	90.02	0.02	0.02	± 0.0487		
96	96.98	0.98	1.02	± 0.0890		
100	100.00	0.00	0.00	± 0.0900		

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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