

Certificate No.

24PYT3\_DEC12240090

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### **Certificate of Calibration**

EQUIPMENT : MONITORS, BEDSIDE, PHYSIOLOGIC

ID CODE : PYT3\_00832

MANUFACTURER : PHILIPS

MODEL : INTELLIVUE MP20(M8001A)

SERIAL No. : 72869288

LOCATION : GASTROINTESTINAL LABORATORY(GI)

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

In

Performed by:		Approved by :	1	
	SOM KONKAFW		PUKARIN TONGKI IANG	

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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**

EQUIPMENT : MONITORS, BEDSIDE, PHYSIOLOGIC

ID CODE : PYT3\_00832

MANUFACTURER : PHILIPS

MODEL : INTELLIVUE MP20(M8001A)

SERIAL No. : 72869288

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
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Systolic				
Standard Setting	UUC* Reading	Error	% Error	Uncertainty
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)
60	60.02	0.02	0.03	± 0.0557
120	118.99	-1.02	-0.85	± 0.0770
200	199.00	-1.01	-0.50	± 0.0794

Diastolic					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)	
30	31.00	1.00	3.33	± 0.0405	
80	77.01	-2.99	-3.74	± 0.0523	
150	152.02	2.01	1.34	± 0.0734	

Heart Rate					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(BPM)	(BPM)	(BPM)	(%)	(BPM)	
60	60.02	0.02	0.03	± 0.0618	
80	80.02	0.02	0.03	± 0.1146	
120	120.01	0.01	0.01	± 0.1174	

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EQUIPMENT : MONITORS, BEDSIDE, PHYSIOLOGIC

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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	90.99	0.99	1.10	± 0.0487
96	96.99	0.99	1.03	± 0.1076
100	99.98	-0.02	-0.02	± 0.0589

### **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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