

Certificate No. 24

24PTP\_0104240188

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## **Certificate of Calibration**

EQUIPMENT : MODULE, ECG/SPO2/NIBP

ID CODE : PTP00296 MANUFACTURER : PHILIPS

MODEL : M3001A

SERIAL No. : DE83732001

LOCATION : I.C.U

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

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

Tel: 02-271-7000 Fax: -

CALIBRATED DATE : 18 APRIL 2024

ISSUE DATE : 2 MAY 2024

Performed by:

3,1024

USANEE CHALONGPHOKSILCHAI PHUWASIN YIWKIM

Approved by:

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

### 1. REFERENCE STANDARD INSTRUMENT:

MASTER	MANUFACTURER	MODEL	SERIAL NO.	CERTIFICATE NO.	DUE DATE
Vitalsign Simulator	Fluke	ProSim8	2541031	23MD777	7 Jun 2024
CARBON	GASCO AFFILIA	PRECISION GAS	-	PO20220615	15 Jul 2026
DIOXIDE	TES,LLC.	MIXTURE			

NITROGEN 5%

CARBON GASCO AFFILIA PRECISION GAS - 18 Sep 2026

DIOXIDE TES,LLC. MIXTURE

NITROGEN 10%

#### 2. THIS CERTIFICATION IS TRACEABLE TO:

- Technology Promotion Association (Thai-Japan)
- GASCO AFFILIATES,LLC.
- GASCO AFFILIATES,LLC.

# 3. THIS RESULT OF TEST WAS FOUND ACCURATE AS SHOW ON DATE AND PLACE OF TEST ONLY



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# **Calibration Report**

EQUIPMENT : MODULE, ECG/SPO2/NIBP

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MODEL : M3001A

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DATE OF CALIBRATION : 18 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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Temperature					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(°C)	(°C)	(°C)	(%)	(°C)	
35	35.00	0.00	0.00	± 0.0051	
37	37.00	0.00	0.00	± 0.0051	
39	39.00	0.00	0.00	± 0.0055	

Systolic(IBP)					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)	
10	10.00	0.00	0.00	± 0.1155	
24	24.00	0.00	0.00	± 0.2771	
120	120.00	0.00	0.00	± 1.3857	

Diastolic(IBP)					
Standard Setting	UUC* Reading	Error	% Error	Uncertainty	
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)	
2	2.00	0.00	0.00	± 0.0231	
10	10.00	0.00	0.00	± 0.1155	
80	80.00	0.00	0.00	± 0.9238	

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EQUIPMENT : MODULE, ECG/SPO2/NIBP

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Carbon Dioxide Concentration 5 %			
UUC* Setting	Standard Reading		
(mmHg)	(mmHg)		
36.8	39.00		

Carbon Dioxide Concentration 10					
%					
UUC* Setting	Standard Reading				
(mmHg)	(mmHg)				
73.6	78.00				

### **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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