

Certificate No.

24PTP\_0104240002

Page 1 of 2

## **Certificate of Calibration**

EQUIPMENT : OXIMETERS, PULSE

ID CODE : PTP04587

MANUFACTURER : CONTEC

MODEL : CMS50D1

SERIAL No. : 21050201004

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 : 1 MAY 2024

Supatcha 5,

Performed by : Approved by : PHUWASIN YIWKIM

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

#### 1. REFERENCE STANDARD INSTRUMENT:

MASTERMANUFACTURERMODELSERIAL NO.CERTIFICATE NO.DUE DATEVitalsign SimulatorFlukeProSim8254103123MD7777 Jun 2024

#### 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



*Certificate No.* 24PTP\_0104240002

Page 2 of 2

# **Calibration Report**

EQUIPMENT : OXIMETERS, PULSE

ID CODE : PTP04587

MANUFACTURER : CONTEC

MODEL : CMS50D1

SERIAL No. : 21050201004

DATE OF CALIBRATION : 16 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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%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	99.25	-0.75	-0.75	± 0.8493				

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				

### **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%