

Certificate No. 24PTP\_0104240261

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## **Certificate of Calibration**

EQUIPMENT : VENTILATORS, ANESTHESIA

ID CODE : PTP00663(VEN)

MANUFACTURER : DATEX-OHMEDA

MODEL : AESPIRE 7100

SERIAL No. : AMXQ00285

LOCATION : Operating Room

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

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

Tel: 02-271-7000 Fax: -

CALIBRATED DATE : 24 APRIL 2024

ISSUE DATE : 3 MAY 2024

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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 DATEGas Flow AnalyzerFluke BiomedicalVT650606972523MD115827 Aug 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



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DATE OF CALIBRATION : 24 APRIL 2024

ENVIRONMENT : TEMPERATURE 23 °C

RELATIVE HUMIDITY 50 %

### PROCEDURE USED:

This instrument was calibration by comparison with standard

### **MEASURMENT RESULT:**

/	Without Adjustment		Before Adjustment		After Adjustment
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TIDAL VOLUME				
UUC* Setting	Standard Reading	Error	% Error	Uncertainty
(mL)	(mL)	(mL)	(%)	(mL)
400	382.00	-18.00	-4.50	± 14.4335
600	585.08	-14.93	-2.49	± 21.8832
800	772.95	-27.05	-3.38	± 29.0511

BREATH RATE				
UUC* Setting	Standard Reading	Error	% Error	Uncertainty
(BPM)	(BPM)	(BPM)	(%)	(BPM)
20	20.00	0.00	0.00	± 0.2309
14	13.93	-0.08	-0.54	± 0.1692
12	12.00	0.00	0.00	± 0.1386

I:E RATIO				
UUC* Setting	Standard Reading	Error	% Error	Uncertainty
((1:x))	((1:x))	((1:x))	(%)	((1:x))
1	1.00	0.00	0.00	± 0.0231
2	1.93	-0.07	-3.50	± 0.0462
2.5	2.39	-0.11	-4.40	± 0.0577

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PEEP				
UUC* Setting	Standard Reading	Error	% Error	Uncertainty
(cmH2O)	(cmH2O)	(cmH2O)	(%)	(cmH2O)
5	4.82	-0.18	-3.60	± 0.0577
7	6.90	-0.10	-1.43	± 0.0808
10	10.32	0.32	3.20	± 0.1155

#### **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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