

Certificate No. 24P

24PTP\_0104240263

Page 1 of 3

### **Certificate of Calibration**

EQUIPMENT : VENTILATORS, ANESTHESIA

ID CODE : PTP00646(VEN)

MANUFACTURER : DATEX-OHMEDA

MODEL : AESPIRE VIEW

SERIAL No. : APHU01010 (VEN: AQBUBEI00109)

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

Supatcha

Approved by:

SUPATCHA BUAPUEAN

PHUWASIN YIWKIM

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

Performed by:

#### 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



Certificate No. 24PTP\_0104240263

Page 2 of 3

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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	391.93	-8.08	-2.02	± 14.4177	
600	598.95	-1.05	-0.17	± 21.7945	
800	792.63	-7.37	-0.92	± 28.9368	

BREATH RATE						
UUC* Setting	Standard Reading	Error	% Error	Uncertainty		
(BPM)	(BPM)	(BPM)	(%)	(BPM)		
20	20.00	0.00	0.00	± 0.2309		
14	14.00	0.00	0.00	± 0.1617		
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	2.00	0.00	0.00	± 0.0462	
2.5	2.48	-0.02	-0.80	± 0.0577	

FI-BME-NHS-CP-018/9 Rev.03 Page 2/3 Issued Date 20/07/2023



Certificate No. 24PTP\_0104240263

Page 3 of 3

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PIP					
UUC* Setting	Standard Reading	Error	% Error	Uncertainty	
(cmH <sub>2</sub> O)	(cmH <sub>2</sub> O)	(cmH <sub>2</sub> O)	(%)	(cmH <sub>2</sub> O)	
20	19.80	-0.20	-1.00	± 0.3200	
30	30.05	0.05	0.17	± 0.3200	
40	39.31	-0.69	-1.72	± 0.3200	

PEEP					
UUC* Setting	Standard Reading	Error	% Error	Uncertainty	
(cmH2O)	(cmH2O)	(cmH2O)	(%)	(cmH2O)	
5	4.79	-0.21	-4.20	± 0.0577	
7	6.81	-0.19	-2.75	± 0.0810	
10	10.33	0.33	3.30	± 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%

FI-BME-NHS-CP-018/9 Rev.03 Page 3/3 Issued Date 20/07/2023