

Certificate No. 24PTP\_0104240015

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### **Certificate of Calibration**

EQUIPMENT : VENTILATORS, TRANSPORT

ID CODE : PTP02178

MANUFACTURER : CAREFUSION

MODEL : LTV 1200

SERIAL No. : E71822

LOCATION : Emergency & Ambulance

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 スプライ

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



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MODEL : LTV 1200

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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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TIDAL VOLUME						
UUC* Setting	Standard Reading	Error	% Error	Uncertainty		
(mL)	(mL)	(mL)	(%)	(mL)		
400	409.85	9.85	2.46	± 14.4394		
600	625.45	25.45	4.24	± 21.7179		
800	826.68	26.68	3.33	± 28.9603		

BREATH RATE						
UUC* Setting	Standard Reading	Error	% Error	Uncertainty		
(BPM)	(BPM)	(BPM)	(%)	(BPM)		
30	30.00	0.00	0.00	± 0.3464		
20	20.00	0.00	0.00	± 0.2309		
15	15.00	0.00	0.00	± 0.1732		

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	1.94	-0.06	-3.00	± 0.0462	
3	2.90	-0.10	-3.33	± 0.0693	

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SERIAL No. : E71822

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	20.13	0.13	0.65	± 0.3200	
30	29.89	-0.11	-0.36	± 0.3311	
40	39.61	-0.39	-0.98	± 0.3247	

PEEP					
UUC* Setting	Standard Reading	Error	% Error	Uncertainty	
(cmH2O)	(cmH2O)	(cmH2O)	(%)	(cmH2O)	
5	4.68	-0.32	-6.40	± 0.0577	
10	9.79	-0.21	-2.10	± 0.1155	
15	14.80	-0.20	-1.33	± 0.1732	

### **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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