

Certificate No.

25PYT3_0101250299

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Certificate of Calibration

EQUIPMENT : ANESTHESIA UNITS

ID CODE : PYT3_04921

MANUFACTURER : GE HEALTHCARE

MODEL : AVANCE CS2

SERIAL No. : APKV01318

LOCATION : ANESTHESIA

SUBMITTED BY : PHYATHAI 3 HOSPITAL

111 Phet Kasem Rd., Pak Khlong Phasi Charoen, Phasi Charoen Bangkok 10160

Tel: (662) 467-1111 Fax: (622) 467-1111

CALIBRATED DATE : 13 JANUARY 2025 ISSUE DATE : 25 JANUARY 2025

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Performed by: _____ Approved by:

proved by:

SUPATCHA BUAPUEAN PHUWASIN YIWKIM

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CONDITION OF THIS RESULT OF TEST

1. REFERENCE STANDARD INSTRUMENT:

MASTER MANUFACTURER MODEL SERIAL NO. CERTIFICATE NO. DUE DATE 14 Jun 2025 Flowmeter Tester Drycal Defender 510 118211 24MD826 24MD829 Gas Flow Analyzer Fluke Biomedical 14 Jun 2025 VT650 6069725

2. THIS CERTIFICATION IS TRACEABLE TO:

- Technology Promotion Association (Thai-Japan)
- 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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Calibration Report

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MODEL : AVANCE CS2

SERIAL No. : APKV01318

DATE OF CALIBRATION : 13 JANUARY 2025

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 |
|---|--------------------|--|-------------------|--|------------------|
|---|--------------------|--|-------------------|--|------------------|

| OXYGEN FLOW RATE | | | | | |
|------------------|------------------|-------|---------|-------------|--|
| UUC* Setting | Standard Reading | Error | % Error | Uncertainty | |
| (LPM) | (LPM) | (LPM) | (%) | (LPM) | |
| 2 | 2.04 | 0.04 | 2.13 | ± 0.0218 | |
| 5 | 4.97 | -0.03 | -0.60 | ± 0.0685 | |
| 7 | 6.94 | -0.06 | -0.82 | ± 0.1003 | |

| N2O FLOW RATE (MIXED O2:N2O = 1:1) | | | | | |
|------------------------------------|------------------|-------|---------|-------------|--|
| UUC* Setting | Standard Reading | Error | % Error | Uncertainty | |
| (LPM) | (LPM) | (LPM) | (%) | (LPM) | |
| 4 | 3.93 | -0.08 | -1.88 | ± 0.0540 | |
| 10 | 9.92 | -0.08 | -0.78 | ± 0.1212 | |
| 14 | 13.93 | -0.07 | -0.54 | ± 0.1545 | |

| AIR FLOW RATE | | | | | |
|---------------|------------------|-------|---------|-------------|--|
| UUC* Setting | Standard Reading | Error | % Error | Uncertainty | |
| (LPM) | (LPM) | (LPM) | (%) | (LPM) | |
| 2 | 2.03 | 0.03 | 1.62 | ± 0.0278 | |
| 5 | 5.15 | 0.15 | 3.00 | ± 0.0723 | |
| 7 | 7.14 | 0.14 | 1.93 | ± 0.0973 | |

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EQUIPMENT : ANESTHESIA UNITS

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| PRESSURE | | | | | |
|----------------------|----------------------|----------------------|---------|----------------------|--|
| UUC* Setting | Standard Reading | Error | % Error | Uncertainty | |
| (cmH ₂ O) | (cmH ₂ O) | (cmH ₂ O) | (%) | (cmH ₂ O) | |
| 20 | 19.89 | -0.11 | -0.55 | ± 0.3365 | |
| 30 | 29.54 | -0.46 | -1.53 | ± 0.3366 | |
| 40 | 39.98 | -0.02 | -0.06 | ± 0.3379 | |

Note: LOCATION: OPERATING ROOM (Negative Pressure Room)

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%

End of Report