

Basic Features

- ◆ Color Touch Screen Graphical User Interface
- ◆ Graph Mode
- ◆ Supports Adult, Pediatric, Anesthesia, Neonatal & High Frequency Ventilators
- ◆ Bi-directional and Unidirectional Gas Flow Capabilities
- ◆ Rates up to 1500 BPM
- ◆ Print and Data Storage - 1 MB of Internal Storage and 64 MB optional SD Flash Card
- ◆ Volumes and Flow in BTPS, BTPD, Actual, Standard or User Defined Standard
- ◆ Calibrations for Air, Oxygen, Air/Oxygen Mixture, Nitrogen, Nitrous Oxide (low flow module only) and Carbon Dioxide
- ◆ High Pressure Port — Up to 150 PSI
- ◆ Lightweight — Only 1.5 lbs
- ◆ Affordable — Lowest Priced Full Function Ventilator Tester on the Market
- ◆ High Performance — Similar or better than any other Ventilator Tester on the Market
- ◆ Battery and AC Operation

VENTILATOR TESTER

TSI Certifier FA Plus



TSI, a worldwide leader in air and gas flow measurement technology, introduces the new Certifier FA Plus. TSI continues to add new capabilities to the Certifier family for all your ventilator testing needs. It now supports adult, pediatric, anesthesia, neonatal and high frequency ventilators.



BC Group International, Inc.
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BC Group 
YOUR ONE-STOP BIOMED SHOP

TSI CERTIFIER FA PLUS VENTILATOR TESTER

SPECIFICATIONS

FLOW, PEAK FLOW & MINIMUM FLOW RATE

High Flow Module (4081)

Air and O2	0 to 300 standard L/min; accuracy $\pm 2\%$ of reading or ± 0.075 standard L/min, whichever is greater
N2	0 to 300 standard L/min; accuracy $\pm 3\%$ of reading or ± 0.075 standard L/min, whichever is greater
CO2	0 to 40 standard L/min; accuracy $\pm 3\%$ of reading or ± 0.075 standard L/min, whichever is greater
Air/O2 Mix	0 to 300 standard L/min; accuracy $\pm 4\%$ of reading or ± 0.100 standard L/min, whichever is greater

Low Flow Module (4082)

Air and O2	0 to 20 standard L/min; accuracy $\pm 2\%$ of reading or ± 0.010 standard L/min, whichever is greater
N2 and CO2	0 to 20 standard L/min; accuracy $\pm 3\%$ of reading or ± 0.010 standard L/min, whichever is greater
N2O	0 to 20 standard L/min; accuracy $\pm 4\%$ of reading or ± 0.025 standard L/min, whichever is greater

Tidal Volume

High Flow Air or O2	0 to 10 L; $\pm 2\%$ of reading plus 0.010 L
High Flow N2 or CO2	0 to 10 L; $\pm 2\%$ of reading plus 0.010 L
High Flow Air/O2 Mix	0 to 10 L; $\pm 4\%$ of reading plus 0.010 L
Low Flow Air or O2	0 to 10 L; $\pm 2\%$ of reading or ± 0.010 L, whichever is greater
Low Flow N2O	0 to 10 L; $\pm 4\%$ of reading or ± 0.010 L, whichever is greater
Low Flow N2 or CO2	0 to 10 L; $\pm 3\%$ of reading or ± 0.010 L, whichever is greater
Minute Volume	0 to 99 L; $\pm 5\%$ of reading plus 0.010 L

LOW PRESSURE, PEAK INSPIRATORY PRESSURE, PEEP PRESSURE, MEAN AIRWAY PRESSURE, MINIMUM PRESSURE AND DELTA PRESSURE

High Flow Module	-25 to 150 cm H2O (-18.4 to 110 mmHg); $\pm 0.5\%$ of reading or ± 0.15 cm H2O (0.15 mm Hg)
Low Flow Module	Not applicable.

HIGH PRESSURE

High Flow Module	-10 to 150 PSI (-0.7 to 10 bar); $\pm 1\%$ of reading or 0.1 PSI (7mbar)
Low Flow Module	Not applicable.
Barometric Pressure	375 to 1500 mm Hg ± 8 mm Hg

TIMING

Respiratory Rate	1 to 1500 BPM; $\pm 2\%$ of reading or 0.1 BPM, whichever is greater
Inspiratory Time, Inspiratory Pause, Expiratory Time	0.04 to 30 seconds; ± 0.01 seconds or 2% whichever is greater
I:E Ratio	1:1000 to 100.0:1; $\pm 4\%$ typical

OTHER MEASUREMENTS

Oxygen	0 to 100% O2; $\pm 2\%$ O2 at calibration conditions
Temperature	10°C to 40°C: $\pm 1^\circ\text{C}$ for flows greater than 2 L/min
Power	AC Adapter and lithium ion battery pack

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