

Certifier® *Plus* Test System

Leading the field...in field ventilation testing



Introducing the Certifier FA *Plus* Test System, the newest ventilator tester in the Certifier family of products. Improving upon the original Certifier's capabilities the Certifier *Plus* supports neonatal, pediatric, adult, high frequency, and anesthesia ventilation testing. An improved graphical user interface features a programmable color touch screen capable of displaying up to 18 respiratory parameters and two graphical waveforms. The Certifier *Plus*...a compact field ventilation testing system that delivers big performance *affordably*.

Functional

The Certifier *Plus* offers extensive functionality with support for neonatal, pediatric, adult, high-frequency and anesthesia ventilator testing. Differential pressure and high pressure measurements are also possible.

Efficient

With the Certifier *Plus* you can do more with an easy to use, intuitive user interface featuring a color touch screen capable of displaying up to 18 different parameters. And with the touch of a button you can display waveforms such as pressure and flow.

Portable

At only 1.5 lbs the hand-held Certifier *Plus* is small, lightweight and convenient. For those on the go, a soft-sided carrying case is included.

Affordable

Save with the Certifier *Plus*. Compared with other hand-held analyzers the Certifier *Plus* offers incredible value and is sure to please even the toughest budgets.

Certifier® *Plus* Test System Kits

Field Test System Kits

- ✓ Include the *TL*² Test Lung™ System
- ✓ Save You Money
- ✓ Increase Productivity
- ✓ Simplify ordering



Certifier® *Plus* Features

Color Touch Screen GUI
(stylus included)

Numerical Mode:
up to 18 parameters

Graphing Mode

Ventilator Support:
Neonatal, Pediatric, Adult,
High-Frequency and
Anesthesia Ventilators

Volume (BTPS, BTPD, more)

Bi-directional Flow

Uni-directional Flow

Positive High Pressure

Negative High Pressure

PEEP & Peak Pressure

Differential Pressure

Barometric Pressure

Measure Air, O₂, and
Air/O₂ Mix

Measure Nitrogen, N₂O,
Carbon Dioxide

Respiratory Rates
up to 1500 bpm

I Time, E Time

Inspiratory Pause

Print and Data Storage
1MB Internal Memory

Optional SD Flash Card

AC Adapter

Certifier *Plus* System Kits

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|-----------|---|
| SPB-3600 | Certifier <i>Plus</i> Ventilator Test System
Includes Interface Module, High Flow Module, Oxygen Sensor Kit, Extra Battery Pack and Charger Kit |
| SPB-3600A | Certifier <i>Plus</i> Anesthesia Test System
Includes Interface Module, High Flow Module, Low Flow Module, Oxygen Sensor Kit, Extra Battery Pack and Charger Kit |

Universal FTS Kits

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|-----------|---|
| SPB-3601 | Universal Ventilator FTS Kit
Includes Certifier <i>Plus</i> Ventilator Test System, <i>TL</i> ² Test Lung™ System, Patient Circuit, and Stopper |
| SPB-3601A | Universal Anesthesia FTS Kit
Includes Certifier <i>Plus</i> Anesthesia Test System, <i>TL</i> ² Test Lung™ System, Patient Circuit, and Stopper |

Ventilator Specific FTS Kits

Kits include the Certifier *Plus* Ventilator Test System and model specific ventilator service kit - *TL*² Test Lung™ System included.

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|----------|---------------------------------|
| SPB-3605 | 840 Ventilator FTS Kit |
| SPB-3610 | 7200 Ventilator FTS Kit |
| SPB-3615 | 760 Ventilator FTS Kit |
| SPB-3620 | BiPAP Vision Ventilator FTS Kit |

All Kits Include:

AC Adapter, Bacteria Filter, Pressure Tubing and Adapters, Operator's Manual, Calibration Certificate, and Soft-sided Carrying Case

Certifier® *Plus* Specifications

High Flow Module

Flow Measurements

Air and O2	0-300 sLpm; $\pm 2\%$ of reading or ± 0.075 sLpm
Air/O2 Mix	0-300 sLpm; $\pm 4\%$ of reading or ± 0.100 sLpm
N2	0-300 sLpm; $\pm 3\%$ of reading or ± 0.075 sLpm
CO2	0-40 sLpm; $\pm 3\%$ of reading or ± 0.075 sLpm

Tidal Volume

Air or O2	0-10 L; $\pm 2\%$ of reading plus 0.010 L
Air/O2 Mix	0-10 L; $\pm 4\%$ of reading plus 0.010 L
N2 or CO2	0-10 L; $\pm 2\%$ of reading plus 0.010 L
Minute Vol.	0-99 L; $\pm 5\%$ of reading plus 0.010 L

Low, Peak, PEEP, Mean and Delta Pressure

-25 to 150 cmH2O; $\pm 0.5\%$ of reading or ± 0.15 cmH2O

High Pressure

-10 to 150 PSI; $\pm 1\%$ of reading or 0.1 PSI

Barometric Pressure

375-1500 mmHg; ± 8 mmHg

Low Flow Module

Flow Measurements

Air and O2	0-20 sLpm; $\pm 2\%$ of reading or ± 0.010 sLpm
N2 and CO2	0-20 sLpm; $\pm 3\%$ of reading or ± 0.010 sLpm
N2O	0-20 sLpm; $\pm 4\%$ of reading or ± 0.025 sLpm

Tidal Volumes

Air or O2	0-10 L; $\pm 2\%$ of reading or ± 0.010 L
N2O	0-10 L; $\pm 4\%$ of reading or ± 0.010 L
N2 or CO2	0-10 L; $\pm 3\%$ of reading or ± 0.010 L

Timing

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

Oxygen Sensor

0-100% O2; $\pm 2\%$ at calibration conditions

Temperature

10-40° C; $\pm 1^\circ$ C for flows greater than 2 Lpm

Power

Lithium Ion Battery	appr. 4 hours (included)
AC Adapter	continuous (included)

The Certifier *Plus* is not a medical device and should not be used on a patient nor be used while the equipment under test is being used on a patient.

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Specifications subject to change without notice.

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