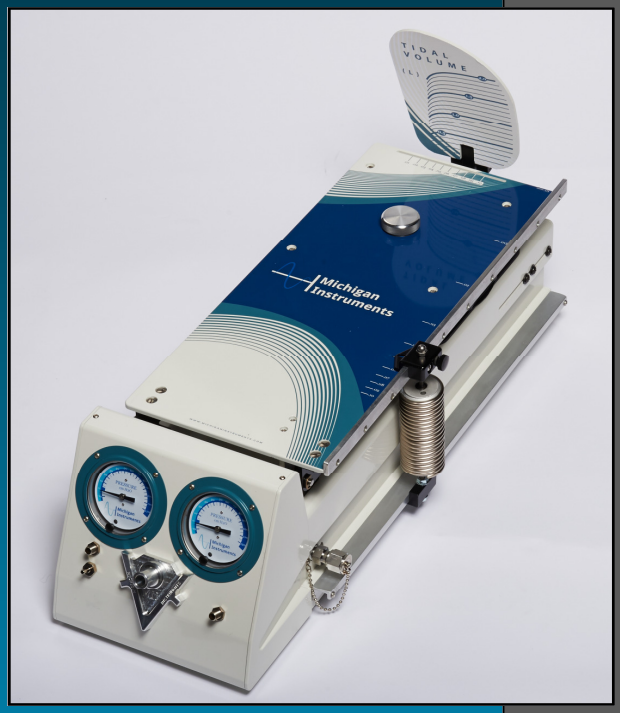
Training/Test Lung—TTL®

Single Adult Lung Simulator



Innovations like this don't come out of thin air.

Provides accurate simulation of a wide range of normal and diseased lung conditions for ventilator testing/calibration and respiratory therapy instruction.

Michigan Instruments

Email sales@michinst.com or visit www.michiganinstruments.com/pv3 to learn more about the TTL/PneuView® test systems from Michigan Instruments.

Single Adult TTL®

What is the Single Adult TTL®?

- A portable analog lung system which accurately simulates human pulmonary function for training or testing ventilators under simulated load conditions.
- The lung visually demonstrates a variety of normal and pathological pulmonary conditions.
- The system provides an accurate measure of volumes, pressures and flow rates of medical equipment and replaces several measuring instruments at a fraction of their combined costs.
- It can accommodate several types of oxygen measuring sensors and other pressure sensing equipment.

How does the TTL® work?

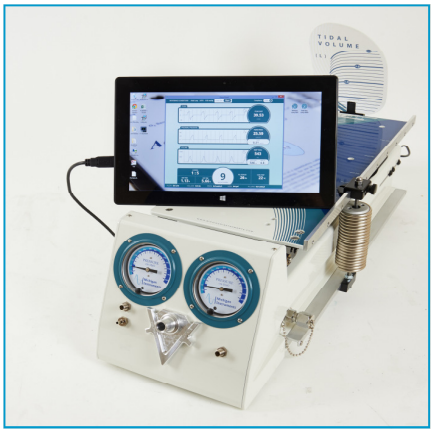
- The TTL® uses a single adult lung, with its own range of compliance settings to simulate the pulmonary system.
- The built-in Pneuflo® based resistances offer accurate simulation of airway resistance in exact accordance with ASTM standards. These resistances represent the parabolic flow characteristics of the human airway.
- The pressure corrected volume measurements match spirometer volumes measured on an actual patient with the same pulmonary compliance and airway resistance.

PneuView®3 combines lung simulation with the versatility of a personal computer.

To enhance the demonstration of ventilation phenomena and allow the capture and review of data from the TTL®, we have developed the PneuView®3 Single Adult System. This system incorporates an interface that communicates with software on a personal computer. The PneuView®3 system combines the very finest in lung simulation with advanced data acquisition, presentation and storage.

PneuView®3 Software

- Visually demonstrates, in real-time, the relationship between pressure, volume, and flow waveforms.
- Provides acquisition, storage, and review of data.
- Tracks ventilator performance trends for up to 1000 hours.
- Measures pressure, volume, flow and timing parameters.
- Is compatible with High Frequency Ventilation.
- Provides FiO_2 and ambient temperature



PneuView®3 Software

CALCULATIONS:

- Breath Rate
- Inspiratory Time
- Expiratory Time
- I:E Ratio
- Tidal Volume
- Minute Volume
- Baseline Pressure
- And many more

Specifications:

Tidal Volume Capacity:	2.0 L	Lung Compliance (adjustable): .01 to .10 L/cmH_2O
Residual Lung Volume:	986 mL	Accuracy: +/- 3% (at calibration volumes)
		Airway Resistance (adjustable):
Size:	Approximately 25” x 10” x 13”	Rp5, 20 or 50 cmH_20/L/sec
Weight:	25 lbs. (11.3 kg)	Accuracy: +/- 5% (at calibration flows)