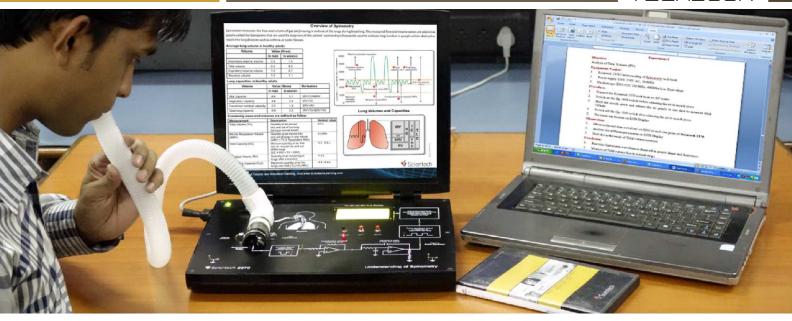
Understanding of Spirometry Scientech 2370

HBOOK



Scientech TechBooks are compact and user friendly learning platforms to provide a modern, portable, comprehensive and practical way to learn Technology. Each TechBook is provided with detailed Multimedia learning material which covers basic theory, step by step procedure to conduct the experiment and other useful information.

A Spirometer is used to conduct a set of medical tests that are designed to identify and quantify defects and abnormalities of various lung conditions in human respiratory system. These tests also help in monitoring the response of lungs to medical treatment.

Scientech TechBook 2370 Understanding of Spirometry shows different parameters like Tidal Volume (TV), Total Lung Capacity (TLC), Minute Volume (MV), Alveolar Volume (AV) and Residual Volume (RV) on display screen. The graph of flow rate Vs volume and volume Vs time can also be seen on the display screen.

Features

- LCD display for graphical and numerical value
- Self contained and easy to operate
- Precise signal conditioning
- Sensitive, Linear, Stable & Accurate
- On-board measuring facility of different parameters
- Reflect lung function by measuring

Tidal Volume (TV)

Total Lung Capacity (TLC)

Minute Volume (MV)

Alveolar Volume (AV)

Residual Volume (RV)

- Measures air volume up to 6 Liter
- Separate test points to observe waveform after each block
- **Low Power Consumption**
- **Online Product Tutorial**

Scope of Learning

Analysis of:

- Tidal Volume (TV)
- Minute Volume (MV)
- Alveolar Volume (AV)
- Residual Volume (RV)
- Total Lung Capacity (TLC)
- Volume / Time Graph

Technical Specifications

: Optical Sensor

: 0-5 Vpp Signal Amplitude

Parameter / Graph Display: Using LCD display

Accuracy $: \pm 3\% \pm 0.1$

Test Point : 5 nos.

Dimension (in mm) : W 326 x D 252 x H 52

: 100V-240V AC, 50 / 60Hz **Power Supply**

Weight : 1.5 Kg approximately

Product Tutorial : Online on

: 1 no.

www.ScientechLearning.com

: 0-40° C, 80% RH

Included Accessories:

Operating Condition

TechBook Power Supply : 1 no. Mains Cord : 1 no. Mouth Piece

Subject to Change