



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.

**Scientech TechBook 2353 Respiration Rate Monitor** provides in-depth study of basic Respiration-rate monitoring. A suitable sensor is provided. The sensor has to be placed properly on the abdomen of subject (human body). The Respiration-Rate Monitor, Scientech TechBook 2353 receives the signal from the sensor i.e. detects the respiratory events executed by subject (human body) and displays the Respiration rate as number of breaths per minute. It also monitors the Tachypnea and Apnea abnormalities using audio and visible indicators.

### Features

- Separate Test-Points to observe waveforms after each block
- User Selectable Tachypnea limit adjuster
- On board visual and audible Tachypnea and Apnea indicator
- User selectable Apnea period control
- On board Respiration event indicator
- 16x2 LCD display for Respiration-rate
- On board threshold control
- On board Reset for display and One minute timer reset
- User selectable buzzer for abnormality indication

### Scope of learning

- Study of real time analysis of respiration using Piezoelectric sensor.
- Study of basic respiration system, exchange of gases in alveoli of lungs.
- Study of apnea (Slow rate of Respiration).
- Study of tachypnea (Fast rate of Respiration).

### Technical Specifications

<b>Accuracy</b>	: ±2 breaths/minute
<b>Respiration-Rate Display:</b>	: 16 x 2 LCD display
<b>Tachypnea Limit Range</b>	: 0-255 Breaths per minute
<b>Apnea Period Selection</b>	: 10, 20, 30, 60 Sec.
<b>Transducer</b>	: Piezoelectric
<b>Test Point</b>	: 7 nos.
<b>Dimensions (mm)</b>	: W 326 x D 252 x H 52
<b>Power supply</b>	: 110V - 260V AC, 50/60Hz
<b>Weight</b>	: 1.5 Kg. (approximately)
<b>Operating Condition</b>	: 0-40°C, 85% RH
<b>Product Tutorial</b>	: Online on <a href="http://www.ScientechLearning.com">www.ScientechLearning.com</a>
<b>Included Accessories</b>	: Power Supply, Belt for Scientech TechBook 2353, Respiration Sensor - 1 no.