



Sciencetech 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.

Phonocardiograph (PCG) Techbook Sciencetech 2356 is used for Listening and observing the sound generated due to mechanical activity of heart i.e. pumping action of heart. Heart sound is a physiological phenomenon which provides diagnostic information in a frequency band ranges from 20 Hz to 1000 Hz. (Min. to Max. frequency limit). An electronic sensor (Stethoscope with microphone) is placed over the patient's chest. This techbook has a low noise and distortion-free amplifier, Band pass filter and main amplifier of proper pitch and intensity. The heart sounds can be heard clearly on the headphone. The PC interface through USB is provided so that the PCG unit can be connected to PC to obtain the Phonocardiogram waveforms of the patient in the PCG software.

Scope of Learning

Study of :

- Pumping action of heart.
- Heart sound generated due to mechanical activity of heart.
- Real time PCG waveform.
- LUB-DUB heart sound.

Features

- Specially Designed for Educational Purpose
- Easy to operate with minimum use of accessories
- Provides amplified audible (Headphone) and visible output (Software)
- Separate Test-Points to observe Waveforms after each Block
- USB interface with PC
- Real time PCG Acquisition Software for waveform analysis

Technical Specifications

Sensor	: Stethoscope with Microphone
Frequency response	: 20Hz-90Hz
CMRR	: ≥ 80 db
PC Interface	: USB (Universal Serial Bus)
Test Point	: 7 nos.
Dimensions (mm)	: W 326 x D 252 x H 52
Power supply	: 110V - 260V AC, 50/60Hz
Weight	: 1.5 Kg. (approximately)
Operating Condition	: 0-40°C, 85% RH
Product Tutorial	: Online on www.SciencetechLearning.com
Included Accessories	: Phonocardiogram Sensor - 1no Headphone - 1no USB Cable - 1no Power Supply - 1no