

Heart-rate monitor cum ECG Trainer provides in-depth study of Electrocardiogram, ECG standard leads configuration, and the measurement of heart-rate i.e. number of ECG pulses (heartbeats) per minute. Enables the Electrocardiogram observation by affixing Biomedical Electrodes to the human body in standard bipolar leads configuration. The Heart-rate monitor receives each ECG observation (heartbeat) i.e. Detects the electrical action executed by the heart of a subject (human body) and displays the heart-rate as number of heartbeats per minute.

Also monitors the abnormalities occur in human cardiovascular system which is Tachycardia (faster heart-rate) and Bradycardia (slower heart-rate) using visible controls. It also facilitates real time acquisition of raw data (ECG) and their corresponding measurements by its real time Analysis Software.

### Features

Self contained and easy to operate

16x2 LCD display of heartbeats per minute

On board both visible (LED) and audible (buzzer) heartbeat event indicator

Separate test-points to observe ECG waveform after each block (in simulation mode (SM) pre-amplifier and filter are not in the function because data coming from the simulator is already filtered and amplified data, while in real time mode all the blocks will be in the function)

In built Data Acquisition module with USB interface for Real time analysis

On board one minute indicator

User Selectable Heart-rate, Bradycardia limit, Tachycardia limit display

On board Bradycardia and Tachycardia Indicator

On board Bradycardia limit, Tachycardia limit adjustment

User selectable buzzer for heartbeat indication

On board Reset for display and One minute Timer reset



### Real time ECG Analysis Software

ECG can be analyzed in real time during acquisition

Continuous recording with heart rate and amplitude calculation

Review and analysis of recorded ECG file

Tabular and graphical reports of start, end, amplitude of PQRST and others

Heart-rate display with QRS detection by visual indication

### Technical Specifications

<b>Measuring Range</b>	: 30-300 heartbeats per minute
<b>Accuracy</b>	: 2 heartbeats/ minute
<b>Heart-rate Display</b>	: 16x2 LCD Display
<b>Tachycardia limit Range</b>	: 0-255 heartbeats per minute
<b>Bradycardia limit Range</b>	: 0-255 heartbeats per minute
<b>ECG Acquisition module</b>	: Real time ECG acquisition with 200 samples/ sec 8-bit A/D Converter with USB interface
<b>Electrodes</b>	: Surface or clamp (Ag-AgCl) electrodes
<b>Power supply</b>	: 230V 10%; 50Hz

Note: Specifications are subject to change.

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