

HEART RATE MEASUREMENT FROM FINGERTIP

This mini project report describes a simple heart rate measuring device from fingertip in the form of a wrist watch. Heart rate is a vital health parameter and is related to the soundness of cardiovascular system and is displayed in bpm. The technique used for sensing heart rate is photoplethysmography. It is the process of optically estimating the volumetric measurement of an organ. This device senses heart rate from fingertip using reflectance type. In this method, light emitted by the source is reflected back to the detector. The sensor output is processed by suitable electronic circuits to obtain a visual display.

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