

Development of Wireless Bluetooth Heart Rate Remote Monitoring System.

Abstract:

This paper presents design and development of a new heart rate remote monitoring device using Microcontroller and wireless Bluetooth that transmits and displays precise readings of the heart rate on laptop. However, the signal is basically the number of beats per minute of the heart and should be monitored from time to time to detect any abnormalities of the heart rate. This system consists of two phases; the integrated pulse rate measurement circuit to detect the pulses on the fingertip that include pulse detection, signal extraction, pulse amplification. Furthermore the microcontroller circuit which processes the detected signal via wireless Bluetooth device which is responsible of the heart rate transmitting readings.

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