

WIRELESS TRANSMISSION OF HEART SOUND AND DISPLAY

Stethoscopes, as any other medical instrument, have undergone a lot of variations and enhancements. These enhancements have mainly been carried out to ensure that doctors and other medical practitioners do not have any trouble whatsoever to analyse body sounds while examining a patient. We propose to design a wireless electronic stethoscope. This electronic stethoscope is based on an embedded processor. The data is transmitted through wireless transmission using Zigbee module which aids data transfer in wireless networks. A microphone mounted on the head of stethoscope is used to pick up the heart sound. Acoustic stethoscope can be changed into a digital stethoscope by inserting a microphone into its head. Heart sounds are sampled amplified filtered and sent wirelessly using Zigbee module so that multiple doctors can analyse heart sounds picked up from the patient. Display is made available for consultation. Heart beat signals are sensed, sent, displayed, monitored, reviewed, and analysed with ease.

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