ABSTRACT

Heart rate monitoring tool is a tool that is used to monitor a patient's condition continuously. This tool will display the number of heart beats per minute in continuous one . BPM amount obtained from the pulse / blood flow to the blood vessels that were censored by the index finger sensors . Sensor signal is what will result will diprosespada microcontroller circuit . In processing the data to be displayed on the display as a writer using ATmega8 IC micro processors.

Process monitoring is done on a wireless apparatus , so that the doctor or nurse can monitor heart rate and body temperature of the patient despite being in a separate room . This tool can be used in patients in the HCU Stroke and other isolation room at the hospital . Because the tool before using this type of wireless X - bee , the authors develop the use of wireless FM .

Based on the test results and measurements on a function generator with measurement of 5 times , earned value - average is not much different from the comparison value , ie the average - average measurement error of 0.3 % for the data of BPM .

After conducting the literature study , planning , experimentation , creation of modules , testing tools , and data collection , in general it can be concluded that the tool ' BPM Monitor with Wireless FM ' and can be used in accordance with the plan .