

ABSTRACT

Temperature monitoring tool is a tool used to monitor a patient's condition continuously. This tool will display the high and low temperature and one each minute continuously. Number LM35 temperature body temperature is used as a sensor that converts heat into electrical signals. Signal results from the finger sensor censorship is what will be processed on the 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 on patients in isolation rooms in hospitals. Because the tool has not previously equipped with nurse call the authors develop with additional parameters, given these parameters including the patient's vital parameters.

Based on the results of the testing and measurement in patients with measuring 5 by 5 times in each patient with a digital thermometer comparison, earned value - average is not much different from the value comparison, ie the average - average measurement error of 0.20008% for the data temperature.

After conducting the literature study, planning, experimentation, creation of modules, testing tools, and data collection, in general it can be concluded that the tool 'wireless nurse call, BPM and temperature can be used in accordance original purpose.

Keywords: *atmega8, LM35, body temperature, wireless*