

## ***Abstract***

*Patient monitor is a tool used to improve a patient's condition in real-time, so that it can be used to ascertain the physiological condition of the patient at that time. The purpose of this study is to examine the condition of patients who indirectly can cause high rates of transmission. Here the author will create a "Two Display Patient Monitor" tool (SpO2 and Temperature).*

*The way this tool works is very easy by pairing the finger sensor on the finger and the sensor in the armpit area will then be detected by the second sensor that will be displayed on the PC and LCD Characters, Analog data from ADC Atmega sent by personal computer (PC) via Bluetooth HC -05 and the value per parameter is also an assessment on the Character LCD.*

*After measurement, an error was made in the tool, the biggest SpO2 error of this tool was 1.02% and the error was obtained by 0.8%. The value for the biggest error of Temperature is 1.02% and the biggest error value is 0.8%.*

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***Keywords : finger sensor, LM35***