

ABSTRACT

Central monitor is a tool used to monitor the patient's condition with several bed side monitor devices that can be seen in one PC display with one display on a PC. Pulse oximeter is one of the parameters in the central monitor that is used to monitor the state of a constellation of oxygen in a patient's blood without going through blood gas analysis.

This central monitor tool works based on sensors that are attached to the patient. With a wireless transmission system using the HC-11 bluetooth module, Arduino as a data processor, Delphi as a processor and displays the results of reading the SpO2 value.

Based on the results of the measurement of the SpO2 value on this central monitor module it has an error value of 1.03%. From this value it can be seen that this module is said to be used because the error value does not exceed the maximum limit value of $\pm 1\%$.

Keyword : SpO₂, sensor finger, HC-11