

ABSTRACT

Incubator Analyzer is a calibrator used to calibrate incubator temperature, mattress temperature, noise, humidity and airflow so that conditions in the baby incubator environment remain stable and within normal limits. In the original tool is not equipped with sending data to android and there is no data storage. "Incubator Analyzer Using Bluetooth Appair Android" has four parameters for measuring temperature, noise, humidity, and water flow. Using the Atmega328 microcontroller as a data processor, and the output results will be displayed on the LCD display and equipped with data transmission via bluetooth HC-05 displayed to Android with data storage. The humidity parameter detects humidity quite well where the biggest error is obtained at 1.28% DHT-22, the Ultrasound Sensor HC SR-04 is less able to detect Air Flow with an error of 311.66% as measured by a comparison device.

Keywords : *Incubator Analyzer, Humidity, Air Flow, Android*