

ABSTRACT

In government regulations, medical devices that are used in health care facilities must be regularly calibrated, at least once a year. One example of the tool used for calibration is the Incubator Analyzer. The general purpose of writing scientific papers is to analyze the results of temperature measurement data and air flow incubator analyzer module with INCU test II. The specific purpose of writing scientific papers is to analyze temperature and water flow data with the after only method. Temperature is the degree of heat or cold measured by a certain scale using a thermometer. While Air flow meters, are devices that measure air flow, which is how much air flows through a tube. It does not measure the volume of air passing through a tube, measuring the actual speed of air flowing through the device in the specified time segment. DS18B20 sensor can detect the temperature quite well where the biggest error is obtained on 0,071372741%, the Ultrasound Sensor can detect Airflow with an error of 0,6%. Using data transmission with Bluetooth HC-05 displayed on

Delphi. From the data generated it can be concluded that the tool is feasible to use.

Keywords: Incubator Analyzer, DS18B20, Ultrasound.