ABSTRACT

The Internet of Things (IoT) is a concept object that has the ability to transfer data over a network without requiring direct human interaction. One example of the application of IoT is the clothes dryer Prototype system which functions to dry clothes quickly and smells good and can be controlled remotely using the internet network. Based on temperature and humidity data, a clothes dryer system can be monitored and controlled remotely. The design in this study includes an infrared sensor detection algorithm, measurement and calibration of the DHT22 sensor as well as observing the quality of network services based on the distance of the prototype to the internet access point. The results of sensor measurements and calibrations show that the DHT22 sensor has a low error when compared to the hygrometer measuring instrument, so the DHT22 sensor can be used as a measuring instrument that represents the amount of room temperature. While the results of network quality testing based on the distance of the prototype to the access point show that the prototype is able to reach the access point up to 15 meters.

Keyword: *Internet of Things, Prototype, Chlotes Dryer, Network Quality, Sensor*