ABSTRACT

In the previous research, data renewal was carried out every hour and only displaying the value of height on LCD. Based on these problems, a design of an airwave altitude monitoring system was created which can help monitoring high waves on ports in real time. Using ultrasonic sensors and microcontrollers to process and read data, and a wifi module (ESP 8266) to send data to database. Based on the results of the tests that have been done the system successfully sends data from the wifi module to the database with a delay of 6 seconds and displays data as a graph in real time or historical on web.

Keywords: Monitoring, Microcontroller, Web