ABSTRACT

A monitoring system on logistic vehicles is urgently needed in order to reduce delays in shipping goods. Because with the monitoring system, the company will easily track the position of logistics vehicles because location data can be accessed in real time.

And from this monitoring process, it is possible to collect data for the information analysis process, one of which is by checking regularly from the position of the logistics vehicle. To see whether the delivery of goods goes according to plan so that problems that occur when shipping goods can be immediately addressed.This monitoring system is carried out using GPS technology that is placed on logistical vehicles that aim to get the coordinates of the location of logistical vehicles.

The difference in the distance between the coordinates on the Android maps with the coordinates of the Garmin 62s GPS reading reaches 28 meters with an average distance comparison of $\pm$ 16,96667 meters. Sending data to thingspeak by the SIM800C module is faster in open-air conditions with an average delivery time of 14.35 seconds compared to when testing is done indoors which requires an average time of 28.3 seconds.

Keywords: Monitoring, GPS, Tracking, Android