

ABSTRACT

Natural disasters such as air pollution, fires and floods are disasters that can endanger the people around them to get data on environmental conditions for a long time so that they will experience difficulties in prevention and relief. As technology grows, monitoring systems from air pollution, fires and floods can be found easily. By using LoRa as a communication medium that is integrated into Raspberry then data is sent to the web using the internet. From the results of tests that have been done, the data sent by LoRa Tx to LoRa Rx has a maximum limit of transmission distance of 1000 m, the data transmission from LoRa Rx to the web takes 2 seconds and the application can display the level of awareness of the water level.

Keywords: natural disaster, Low Power Wide Area Network (LP-WAN), LoRa module, Raspberry Pi, Processing hypertext (PHP)