

ABSTRACT

Forest fires during the dry season are caused or triggered by natural events or human carelessness. When there is a forest fire will show smoke to the surrounding residents and usually will only be reported to officials and evacuations in the area. The bushfire problem led to the idea of creating a web-based fire monitoring system by integrating flame sensors and LM35D temperature sensors in the Xbee module. Flame sensor is a sensor that detects fire, temperature sensor detects existing temperature and Xbee module is a communication medium for data delivery. The data received will be sent to the web using the internet connection from nodeMCU while sending telegram notifications when a fire is detected. With the connection of each device on the data system can be displayed on web monitoring and telegram by informing the status of the fire that occurred at that time.

Keywords: Telegram, Flame sensor, GPS,