

***Build Tool Monitoring Gas Sulfur Dioxide (SO2) Mount Ijen via WEB
based Arduino***

Meidy Yudha Prakoso

*Computer Engineering
Information Technology
State Polytechnic of Jember*

ABSTRACT

The study was conducted to create a monitoring tool concentration of gas SO2 sensor using MQ-136, sensor DHT22 for Temperature and Humidity with a method of sending data to the database. This tool is very important considering gas SO2 is one type of gas that is harmful and can cause respiratory problems. This tool allows for monitoring, recording and concentration of gas SO2, Temperature and Humidity warning system remotely. Acquisition of sensor data using Arduino will be forwarded to the serial Arduino Ethernet Shield Nano. Data from the sensors is sent to the database and visualized on the WEB page. The authors make this final project is expected to provide information concentration gas SO2, Temperature and Humidity in real-time to tourists and sulfur miners with the title "Build Tool Monitoring Gas Sulfur Dioxide (SO2) Mount Ijen via WEB based Arduino".

Keywords: Arduino, Monitoring, SO2, MQ-136, DHT22, Database.