

## ABSTRACT

In the industrial world there are various types and types of a main driving device of the industrial wheel, to produce an item, usually an industry uses a tool that has high efficiency, in terms of power usage as well as from the costs incurred for maintenance

In this case, we would like to discuss one of the main tools driving the industrial wheels, namely the compressor, the compressor here works as the main tool in the manufacturing of electronic components in one of the industries located in Cikarang

In the operation of the compressor is still done manually, such as checking regularly, and requires more time in the search for problems when an error occurs in the compressor

For that we want to solve the problems that exist in the factory industry, especially those concerning compressor as the main tool in the production of electronic components.

Making the maintenance management based on IoT which means that all data recording from the compressor will be sent via the antares platform and displayed via the android application.

The network speeds used are 40mbps and 12mbps.

At a network speed of 40mbps, the speed of data retrieval by the application is 2,302 data per second while the data speed of 12mbps has a data retrieval speed of 2.0193 data per second from the two network speeds there is a difference of 0.2839 data per second

Keyword : Temperature and air humidity control system, Hysteresis, Fuzzy Logic.