

ABSTRACT

The weather parameters like air temperature, humidity, and pressure, also rain gauge, wind speed and direction also the other parameter are the factor that very important to be monitoring all the time. Measurement of quantities are typically conducted at climatological stations. Ways and measuring instruments in meteorological and climatological stations in Indonesia are generally still used manually, so the results of the completeness and accuracy of data are dependent on humans. Some factory-made automatic recording devices are used, but the price is still relatively expensive.

Therefore, we need an automatic weather station which can be monitoring all the time. One solution is to make a homemade weather station that integrated with sensors that can lower costs than factory-made automatic recording devices. The weather stations also have to be monitoring anywhere online with a web media. So to overcome this problem, in this final projects will be made a tool that will monitor the weather online.

Weather stations are made using certain sensors that have been measurements and comparisons with existing sensor then send the parameters of the weather data that be read by microcontroller interface. After that the parameters of weather data sent via the RF Module and the online monitoring.

Keywords : automatic weather station, microcontroller, RF Module, online