

ABSTRACT

The change of weather is affected by rainfall rate, wind speed, temperature and air humidity throughout the year. Data measuring rainfall, wind speed, temperature and humidity that done less efficient by recording the measurement manually. This is the problem in determining the appropriate planting season to produce an optimum agricultural production.

The process of manually recording data is less efficient, because the data obtained is less valid as the reference of planting season with the orders of the human error factor. Therefore a device that can retrieve and store data from weather station device automatically is needed.

In this final project has been made weather station device to measure rainfall, wind speed, and humidity automatically and store data on SD / MMC. This device consists of a rainfall measurement block, wind speed, temperature and air humidity and storage media such as SD / MMC. Each block on this device uses sensors to record data automatically and displays on the LCD. This device uses a humidity sensor HSM 20 G, wind speed sensor, rainfall sensor, ATMEGA 8535 microcontroller, LCD, power supply and SD / MMC.

Key word : humidity, HSM 20 G sensor, Microcontroller, LCD, wind speed sensor, rainfall sensor and MMC.