ABSTRACT

Water is one important element in life. One source of water is rain. Rain is part of the rotation cycle of water, which is the point of falling water from the atmosphere to the surface of the earth. Rain can bring benefits for dry areas but also can be disastrous if too often to fall.

To investigate the rain, the rain has several parameters. Among them is the rainfall. Expressed a high amount of rainfall water in rain caused the ground on a surface without infiltration, evaporation, and drainage.

In this final project has made a device that can measure rainfall. Devices made using microcontroller technology, so that measurements can be made more practical and automatic. Microcontroller used is the microcontroller ATmega 8535.

This final project design rainfall gauges that use infrared sensors as the sensors detect the water level rise. Rainfall gauges are equipped with automatic water dischargers that can take measurements many times in the long term. As timer is used RTC. The measurement results will be displayed on the LCD.

Keywords: Measuring rainfall, microcontroller, infrared sensors, automatic water dischargers, RTC and LCD