

RAIN DETECTOR AND ALERT USING 8051 MICROCONTROLLER

Description:

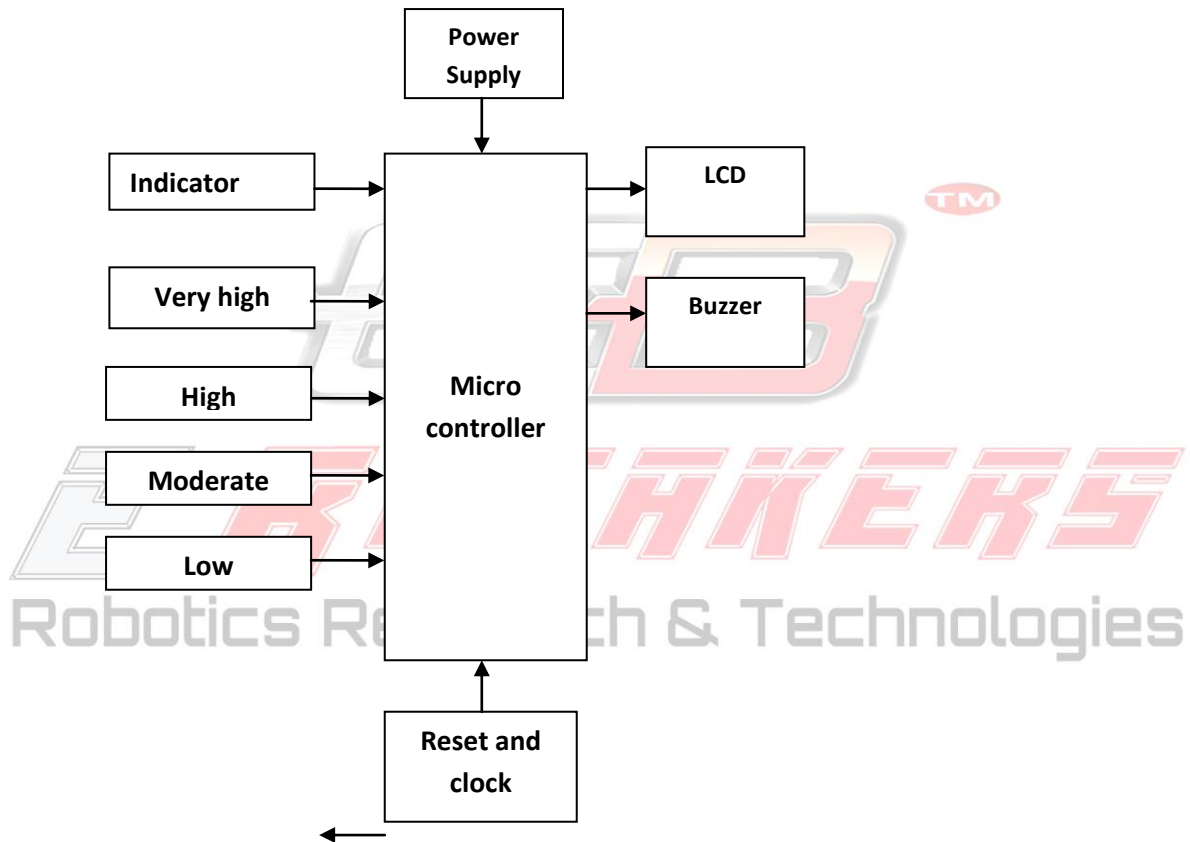
This rain detector is working in very simple process of water conducting electricity. The wire which is connected to Vcc and the other four wires are made to be inside the pipe whose image is given below. It has different levels namely slow, moderate, high, and very high via BC547 transistor. Port P2 is connected to data pins of LCD and P1.0, P1.1, P1.2, are connected to RS, RW, and EN pins of LCD respectively.

When there is no rain it will show No Rain. As the rain starts the pipe gets filled slowly wire at different levels get some positive voltage, due to conducting nature of the water. Due to this voltage is sent to their respective pins on controller. When first drop fall in that pipe, LCD displays the message slow. When the speed of rain increases the water get touched the wire and show different message like slow, moderate, high, very high.

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Block diagram:



Hardware requirements:

1. Micro Controller
2. Buzzer
3. Lcd display

Software requirements:

1. Keil software
2. Embedded c

