

Electrical Information

Buttons:

The switches used are single pole double through momentary switches. When in the resting position the switches are connected directly to ground, throwing the switches connects the board to VCC. To detect this change the middle pin of the switches are connected to a digital pin of the Arduino, the Arduino then detects the change.

Potentiometer:

The potentiometer is connected to GND, VCC and an analog pin of the Arduino. The potentiometer is sliding type and of a resistance of around 10k Ohms. One end of the potentiometer is connected to VCC with the other end being connected to GND, the pin connected to the slider is then connected to the analog pin of the Arduino.

Arduino:

A basic Arduino is used to sense the voltage on the switches and to read the voltage from the potentiometer.