

## 1.Resistors



1.5k Ohm Resistor

Resistors are passive devices that restrict the flow of current or divide the voltage through the circuit. The input power passes through these resistors and then to the sensors to avoid damage.

## 2. Breadboard



Breadboard

The breadboard is the basic component of any circuit building process. All components, be it input sensors or output display devices are connected to the power supply, microcontroller using wired connections through a breadboard. The holes in the breadboard are in series. There are various sizes like full-sized, half-sized, and mini breadboard.

### 3. LED



#### LED

Light Emitting Diode is a commonly used light source. It is a semiconductor that emits light when current flows through it.

### 4. Piezo Buzzer



#### Piezo Buzzer

It is an electrical component that generates a beep sound on receiving an input. It works on the principle of [#piezo](#) crystal.

Buy [Piezo buzzer](#) from here.

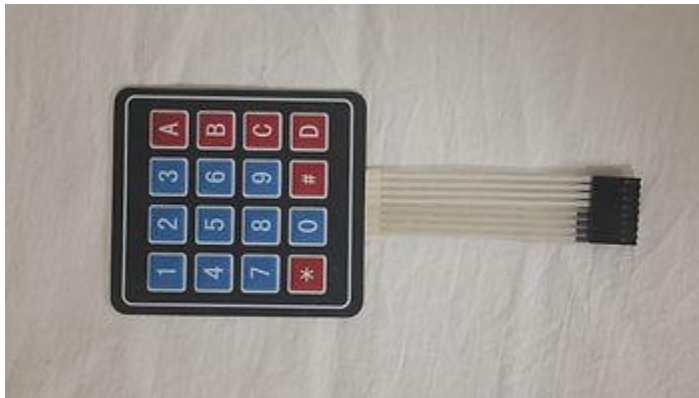
### 5. Jumper Wires



### Jumper Wires

These are the main components that are used to establish the connections between different devices of the circuit.

### 6. 4x4 Keypad



### 4x4 Keypad

A 4\*4 matrix is used to insert input values into the project. This particular component has a total of 8 terminals, driven out from the 16 buttons present in the module.