Membrane Keypad 16 Key (Matrix 4X4)

Feature

Pad Size: 77 x 70 x 0.8mm
Cable Length: 3-1/3″ or 85mm
Weight: 9g
Connector: Dupont 8 pins, 0.1″ (2.54mm) Pitch
Mount Style: Self-Adherence
Max. Circuit Rating: 35VDC, 100mA
Insulation Spec.: 100M Ohm, 100V
Operation Temperature: -20 to +40 °C

Arduino Code

The arrangement of the keys is

```
1 2 3 A
4 5 6 B
7 8 9 C
* 0 # D
```

There is a ribbon with 8 wires running from the bottom of the keypad. With the keypad face up, the wires connect in sequence from left to right to Arduino digital pins 2 - 9. Don't use digital pins 0 and 1 on the Arduino Uno, since they are used for serial communication.

The Arduino Keypad library is available from the Arduino Playground.

The following code will allow you to test the keypad. As each key is pressed, the corresponding character should appear on a separate line in the Arduino IDE's serial console.

```
#include <Keypad.h>

const byte ROWS = 4;
const byte COLS = 4;
char keys[ROWS][COLS] = {
  {'1','2','3','A'},
```

```
  {'4','5','6','B'},
  {'7','8','9','C'},
  {'*','0','#','D'}
};
byte rowPins[ROWS] = {2,3,4,5}; //connect to row
pinouts
byte colPins[COLS] = {6,7,8,9}; //connect to column
pinouts

Keypad keypad = Keypad( makeKeymap(keys), rowPins,
colPins, ROWS, COLS );

void setup(){
  Serial.begin(9600);
}

void loop(){
  char key = keypad.getKey();

  if (key != NO_KEY){
    Serial.println(key);
  }
}
```