

## MD0089

### Membrane 3x4 Matrix Keypad

#### Description:

Punch in your secret key into this numeric matrix keypad. This keypad has 12 buttons, arranged in a telephone-line 3x4 grid. It's made of a thin, flexible membrane material with an adhesive backing (just remove the paper) so you can attach it to nearly anything. The keys are connected into a matrix, so you only need 7 microcontroller pins (3-columns and 4-rows) to scan through the pad. Check the tutorials tab for links to an Arduino library and example code.

#### Specification:

- Weight: 7.5 grams
- Keypad dimensions: 70mm x 77mm x 1mm (2.75" x 3" x 0.035")
- Length of cable + connector: 85mm
- 7-pin 0.1" pitch connector

#### Library download:

<https://playground.arduino.cc/uploads/Code/keypad.zip>

#### Example Code:

```
#include "Arduino.h"
#include "Keypad.h"
const byte ROWS = 4; //four rows
const byte COLS = 3; //three columns
char keys[ROWS][COLS] = {
  {'1','2','3'},
  {'4','5','6'},
  {'7','8','9'},
  {'*','0','#'}
};
byte rowPins[ROWS] = {8, 7, 6, 5}; //connect to the row pinouts of the keypad
byte colPins[COLS] = {4, 3, 2}; //connect to the column pinouts of the keypad
Keypad keypad = Keypad( makeKeymap(keys), rowPins, colPins, ROWS, COLS );
```

