

MAX CODE

<pre><code>

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+A3jKPnC
-----end_max5_patcher-----
</code></pre>

ARDUINO CODE

```
const int buttonPin = 2;
const int ledPin = 13;    // the number of the LED pin
const int SOFT_POT_PIN = A0; // Pin connected to softpot wiper
const int GRAPH_LENGTH = 40; // Length of line graph
#define POWER_PIN 7
#define SIGNAL_PIN A5

int value = 0; // variable to store the sensor value
// variables will change:
int buttonState = 0; // variable for reading the pushbutton status

void setup() {
    // initialize the LED pin as an output:
    pinMode(ledPin, OUTPUT);
    // initialize the pushbutton pin as an input:
    pinMode(buttonPin, INPUT);
    pinMode(SOFT_POT_PIN, INPUT);
    pinMode(POWER_PIN, OUTPUT); // configure D7 pin as an OUTPUT
    digitalWrite(POWER_PIN, LOW); // turn the sensor OFF
    Serial.begin(115200);
}

void loop() {
    // read the state of the pushbutton value:
    buttonState = digitalRead(buttonPin);
    int b1 = buttonState;
    int softPotADC = analogRead(SOFT_POT_PIN);
    // Map the 0-1023 value to 0-40
    // int softPotPosition = map(softPotADC, 0, 1023, 0, GRAPH_LENGTH);
    int b2 = softPotADC >> 3;
    int b3 = softPotADC & 7;
    digitalWrite(POWER_PIN, HIGH); // turn the sensor ON
    delay(10); // wait 10 milliseconds
    value = analogRead(SIGNAL_PIN); // read the analog value from sensor
    digitalWrite(POWER_PIN, LOW); // turn the sensor OFF
    int b4 = value >> 3;
```

```
int b5 = value & 7;
Serial.write (b1);
Serial.write (b2);
Serial.write (b3);
Serial.write (b4);
Serial.write (b5);
Serial.write (255);
// check if the pushbutton is pressed. If it is, the buttonState is HIGH:
if (buttonState == HIGH) {
    // turn LED on:
    digitalWrite(ledPin, HIGH);
} else {
    // turn LED off:
    digitalWrite(ledPin, LOW);
}
}
```