

PRESSURE SENSOR TEST

What is Velostat?

“...piezoresistive material, meaning it's electrical resistance decreases when pressured. When sandwiched between two conductive layers, it has a wonderful range for making pressure and bend sensors. It can also be used for resistive sensing over distance, position sensing.” (<http://www.kobakant.at/DIY/?p=381>)

To Read Velostat Sensor Values

- Connect one end of [velostat sensor] (<https://learn.adafruit.com/firewalker-led-sneakers/make-velostat-step-sensors>) to GND and one to D9/A9.
- Connect Flora board to computer using USB cable.
- In the Arduino IDE, make a new sketch with the following code:

```
``` C++
#include <Firewalker.h>

#define SENSOR_PIN A9

Firewalker firewalker(SENSOR_PIN);

void setup() {
 // Initialize values
 firewalker.begin();
}

void loop() {
 // Read step value from analog pin
 firewalker.updateSensorValue();

 // Print analog input to serial port
 Serial.println(firewalker.getSensorValue());

 // Add a short delay
 delay(200);
}
```
```



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- Choose the correct board (Tools->Board->Arduino Flora) and serial port (Tools->Port->something with USB), and run the sketch.
- Open the Serial Monitor (Tools->Serial Monitor) to read values from the velostat sensor. Try pressing/stepping on the sensor to determine what the "step on threshold" and "step off threshold" values are for you!



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