

# Arduino KY-023 XY-axis joystick module

From



Buy this sensor or kit.

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## PS2 game joystick axis sensor module product description

The company produces PS2 game joystick axis sensor module consists of using original quality metal PS2 joystick potentiometer system For the (X, Y) a 2-axis analog output and for (Z) 1 digital output channel button.

## Specifications

The joystick is a combination of 2 analog potentiometer and a digital switch.

## Test

- Arduino controller × 1
- USB data cable × 1
- PS2 Game sensor module × 1

## Schematic

- Arduino GND --> Module pin -
- Arduino +5V --> Module pin +5V
- Arduino Analog 0 --> Module VRx
- Arduino Analog 1 --> Module VRy
- Arduino Digital --> Resistor??-->Module SW

you need a resistor, you can use Arduino internal pullup resistor, command ( `pinMode(pin, INPUT_PULLUP);` ) does the job

# Example Code

```
// Module KY023
// For more info see http://tkkrLab.nl/wiki/Arduino\_KY-023\_XY-axis\_joystick\_module
int JoyStick_X = A0; // x
int JoyStick_Y = A1; // y
int JoyStick_Z = 3; // key
void setup ()
{
  pinMode (JoyStick_X, INPUT);
  pinMode (JoyStick_Y, INPUT);
  pinMode (JoyStick_Z, INPUT_PULLUP);
  Serial.begin (9600); // 9600 bps
}
void loop ()
{
  int x, y, z;
  x = analogRead (JoyStick_X);
  y = analogRead (JoyStick_Y);
  z = digitalRead (JoyStick_Z);
  Serial.print (x, DEC);
  Serial.print (",");
  Serial.print (y, DEC);
  Serial.print (",");
  Serial.println (z, DEC);
  delay (100);
}
```

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