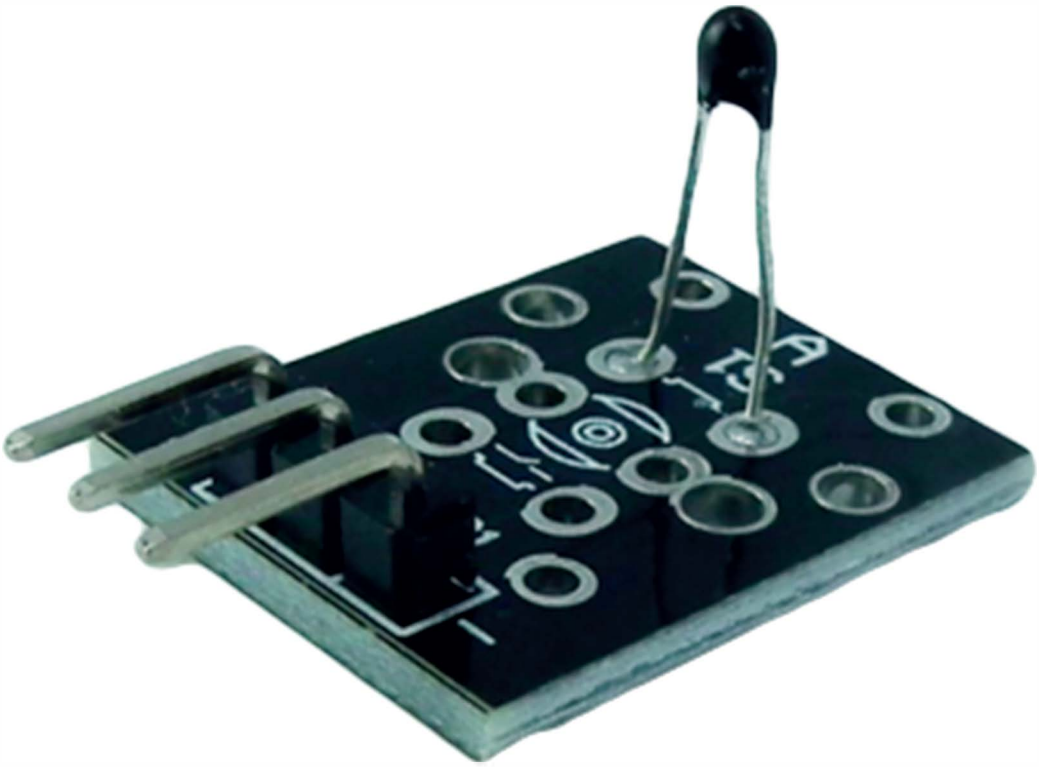
KY-013 Thermistor Sensor Modul Datenblatt



Contents:

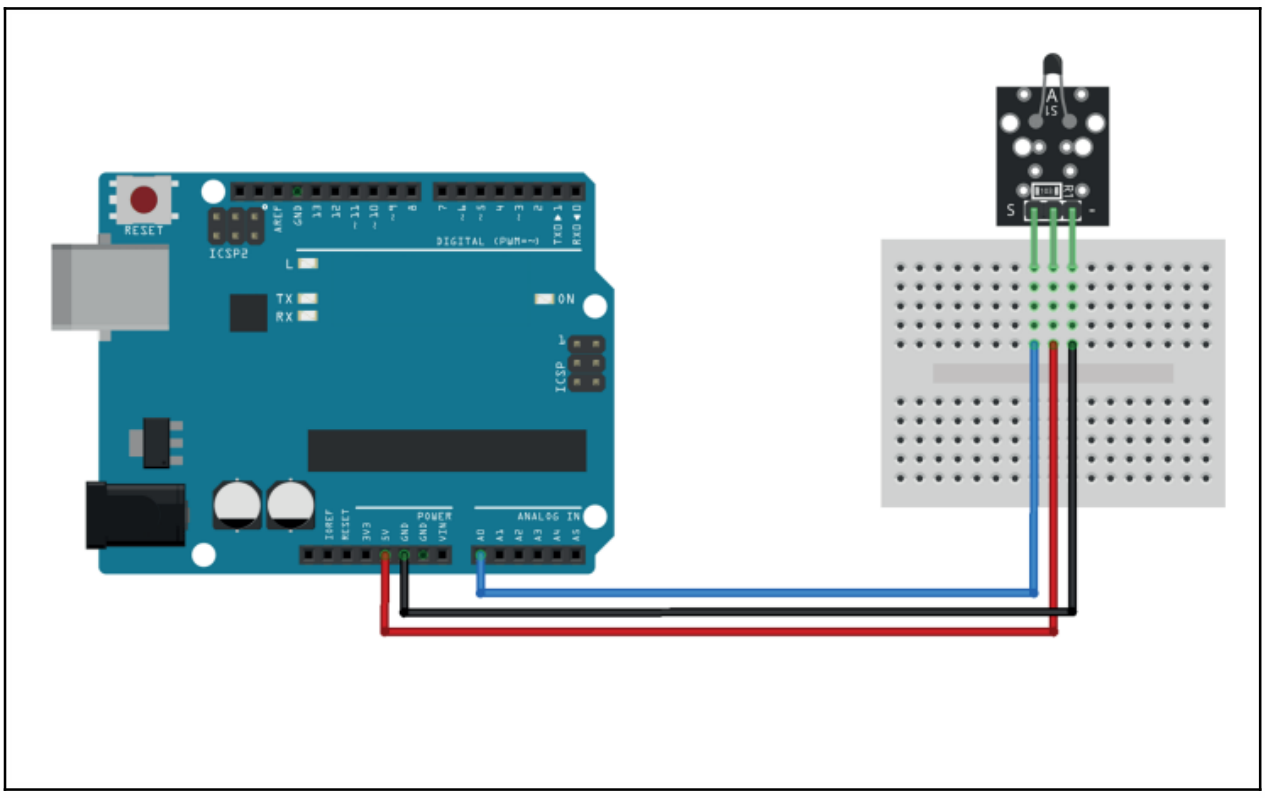
1. Specifications

The KY-013 Analog Temperature Sensor module consist of a NTC thermistor and a 10 kΩ resistor. The resistance of the thermistor varies with surrounding temperature, we'll use the Steinhart–Hart equation to derive precise temperature of the thermistor.

Operating Voltage	5V
Temperature measurement range	-55°C to 125°C [-67°F to 257°F]
Measurement Accuracy	±0.5°C

2. Connection Diagram

Connect board's power line (middle) and ground (-) to 5V and GND respectively.
Connect signal (S) to pin A0 on the Arduino.



3. Example Code

```
#include <math.h>

double Thermister(int RawADC) {
    double Temp;
    Temp = log(((10240000/RawADC) - 10000));
    Temp = 1 / (0.001129148 + (0.000234125 + (0.0000000876741 * Temp * Temp ))* T
    Temp = Temp - 273.15; // Convert Kelvin to Celcius
    return Temp;
}

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

void loop() {
    Serial.print(Thermister(analogRead(0))); //read pin A0
    Serial.println("c");
    delay(500);
}
```