

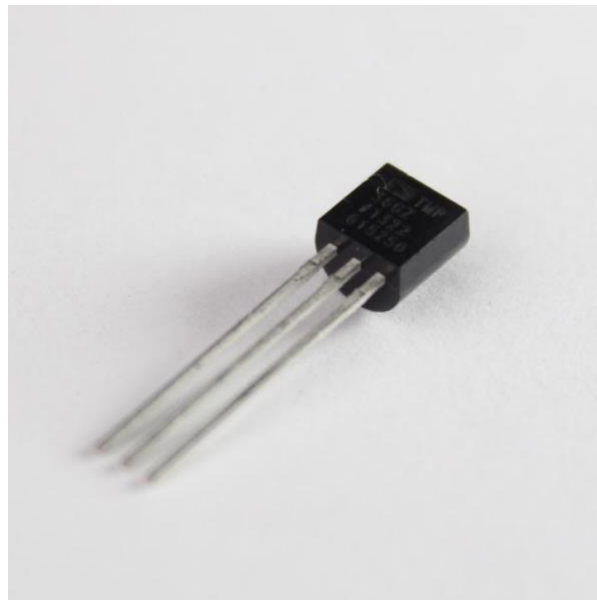
Analog Temperature Sensor (TMP36)

Voltage: Operates at 2.7 V to 5.5 V

Range: -40 °C to 125 °C (-40 °F to 257 °F)

Accuracy: +/- 2 °C at full range, +/- 1 °C around room temperature

Cost: \$1.50 for 1, Unit Price drops in bulk



Pins for TMP36 (Pictured Above): Left pin is V_{in} , middle pin is V_{out} , right pin is GND

Formula to get Temperature in Celsius: $(V_{\text{out}} \text{ (in mV)} - 500) / 10$

Sources:

Adafruit: <https://www.adafruit.com/product/165#technical-details>

TMP36 Datasheet: https://www.analog.com/media/en/technical-documentation/data-sheets/TMP35_36_37.pdf

Sparkfun: <https://www.sparkfun.com/products/10988>

How to wire: <https://bc-robotics.com/tutorials/using-a-tmp36-temperature-sensor-with-arduino/>