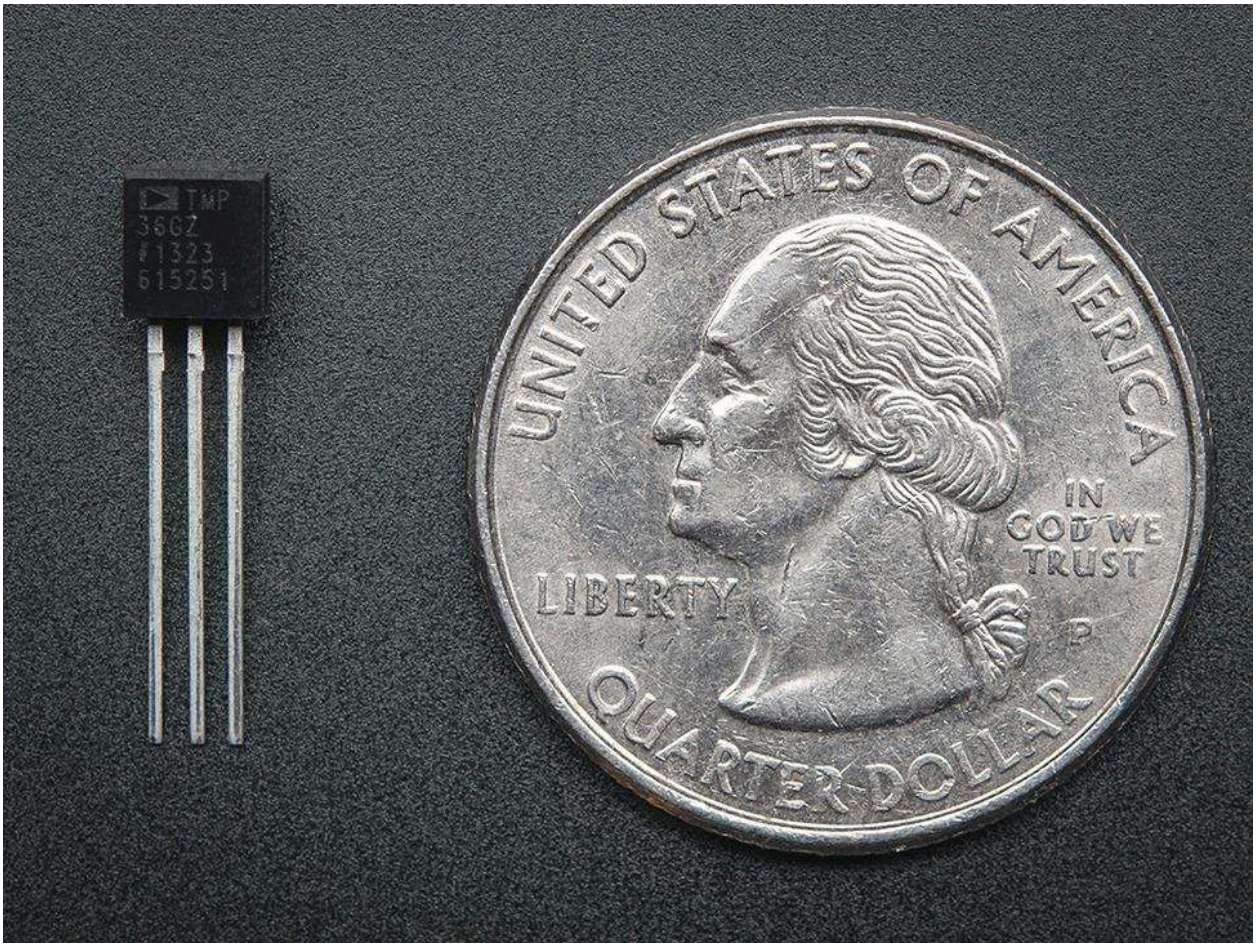
TMP36 - Analog Temperature sensor - TMP36

Product ID: 165



Description

Wide range, low power temperature sensor outputs an analog voltage that is proportional to the ambient temperature. To use, connect pin 1 (left) to power (between 2.7 and 5.5V), pin 3 (right) to ground, and pin 2 to analog in on your microcontroller.

The voltage out is 0V at -50°C and 1.75V at 125°C. You can easily calculate the temperature from the voltage in millivolts: Temp °C = 100*(reading in V) - 50

[See the webpage for datasheets and more information](#).

[For a full tutorial with wiring diagrams, Arduino and CircuitPython code examples and project ideas, please read the TMP36 temperature sensor tutorial page](#)!

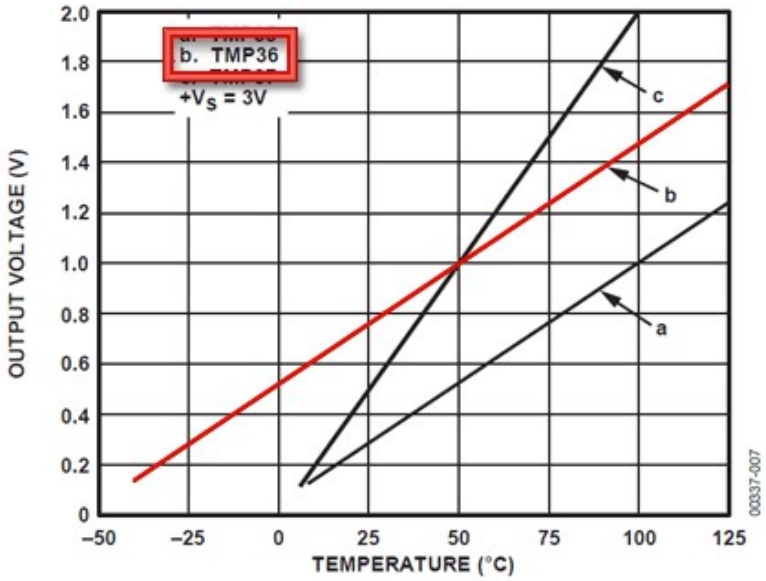


Figure 6. Output Voltage vs. Temperature

Technical Details

Dimensions:

- Length: 3.5mm / 0.14"
- Width: 4.6mm / 0.18"
- Height: 19mm / 0.74"
- Weight: 0.2g