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: \[ \text{Temp} \degree C = 100 \times (\text{reading in V}) - 50 \]

See the webpage for datasheets and more information. For a full tutorial with wiring diagrams, code examples and project ideas, please read the temp. sensor tutorial page!

**Figure 6. Output Voltage vs. Temperature**