SEED TECHNOLOGY INC (SEEEDUINO)
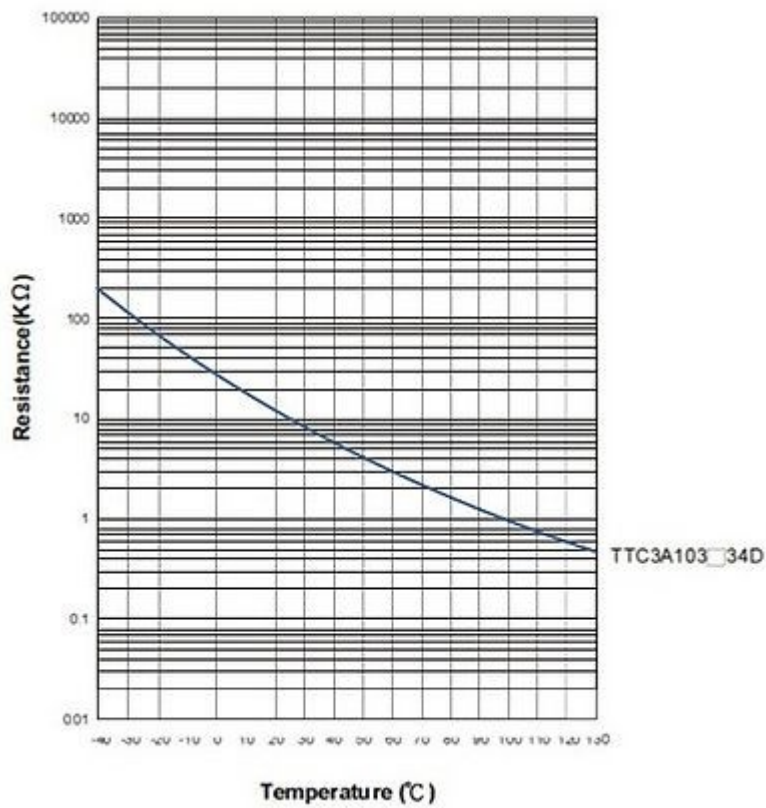# Temperature Sensor
Model: SEN23292P

Introduction

The temperature sensor Grove uses a <u>thermistor</u> which returns the ambient temperature in the form of a resistance value, which is then used to alter Vcc (5V with our Seeeduinos). Our board then converts this voltage value measured by an analog input pin to a temperature. The operating range is -40 to 125 degrees Celsius, with an accuracy of ±1.5ºC.

As the temperature increases, the resistance value of the sensor decreases:

Although the calculation of the actual temperature can seem quite complex, it is simple to execute. For an example of how this is done, please refer to project seven described later in this guide.

Temperature Sensor Grove Schematic