**Grove - Temperature and Humidity Sensor Pro**

## Specification

| **Item** | **Min** | **Norm** | **Max** | **Unit** |
| --- | --- | --- | --- | --- |
| VCC | 3.3 | - | 6 | V |
| Measuring Current Supply | 1 | - | 1.5 | mA |
| Standby Current Supply | 40 | - | 50 | uA |
| Measuring range **(Humidity)** | 5% | - | 99% | RH |
| Measuring range **(Temperature)** | -40 | - | 80 | °C |
| Accuracy**(Humidity)** | - | - | ±2% | RH |
| Accuracy **(Temperature)** | - | - | ±0.5 | °C |
| Resolution **(Humidity)** | - | - | 0.1% | RH |
| Resolution **(Temperature)** | - | - | 0.1 | °C |
| Repeatability**(Humidity)** | - | - | ±0.3% | RH |
| Repeatability **(Temperature)** | - | - | ±0.2 | °C |
| Long-term Stability | - | - | ±0.5% | RH/year |
| Signal Collecting Period | - | 2 | - | S |
| Respond Time 1/e(63%) | 6 | - | 20 | S |

**REQUIREMENTS:**-- Raspberry pi, Grove-DHT sensor pro, GrovePi+

**Schematic:-** ****

* navigate to the demos’ directory:

cd yourpath/GrovePi/Software/Python/

* To see the code

nano grove\_dht\_pro.**py** # "Ctrl+x" **to** **exit** #

**import** grovepi

*# Connect the Grove Temperature & Humidity Sensor Pro to digital port D4*

*# SIG,NC,VCC,GND*

sensor = 4

**while** **True**:

**try**:

[temp,humidity] = grovepi.dht(sensor,1)

**print** "temp =", temp, " humidity =", humidity

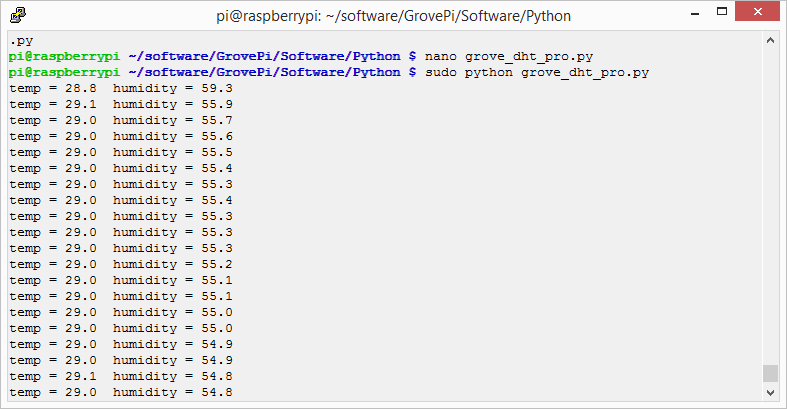
**except** IOError:

**print** "Error"

* Run the demo.

sudo **python** grove\_dht\_pro.**py**

* Here is the Result.



<https://www.mgsuperlabs.co.in/estore/Sensors/Environmental-Sensors/Adafruit-MiCS5524-CO-Alcohol-and-VOC-Gas-Sensor-Breakout>

<https://www.mgsuperlabs.co.in/estore/Sensors/Environmental-Sensors/Grove-Multichannel-Gas-Sensor>

[https://www.mgsuperlabs.co.in/estore/Grove-Dust-Sensor?sea](https://www.mgsuperlabs.co.in/estore/Grove-Dust-Sensor?search=dust%20sensor)

[[https://www.mgsuperlabs.co.in/estore/Sensors/Temperature-Sensors/Grove-Temperature-Humidity-Sensor-High-Accuracy-Mini](https://www.mgsuperlabs.co.in/estore/Grove-Dust-Sensor?search=dust%20sensor)](https://www.mgsuperlabs.co.in/estore/Sensors/Temperature-Sensors/Grove-Temperature-Humidity-Sensor-High-Accuracy-Mini)

[[https://www.mgsuperlabs.co.in/estore/Grove-CO2-Sensor?search=grove%20CO2](https://www.mgsuperlabs.co.in/estore/Grove-Dust-Sensor?search=dust%20sensor)](https://www.mgsuperlabs.co.in/estore/Grove-CO2-Sensor?search=grove%20CO2)

[[https://www.mgsuperlabs.co.in/estore/Grove-Pi-Plus](https://www.mgsuperlabs.co.in/estore/Grove-Dust-Sensor?search=dust%20sensor)](https://www.mgsuperlabs.co.in/estore/Grove-Pi-Plus)[rch=dust%20sensor](https://www.mgsuperlabs.co.in/estore/Grove-Dust-Sensor?search=dust%20sensor)