Temperature and Humidity Sensor Module #2

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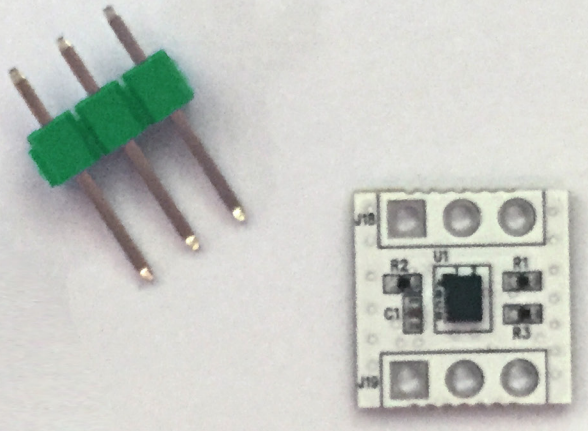


Description

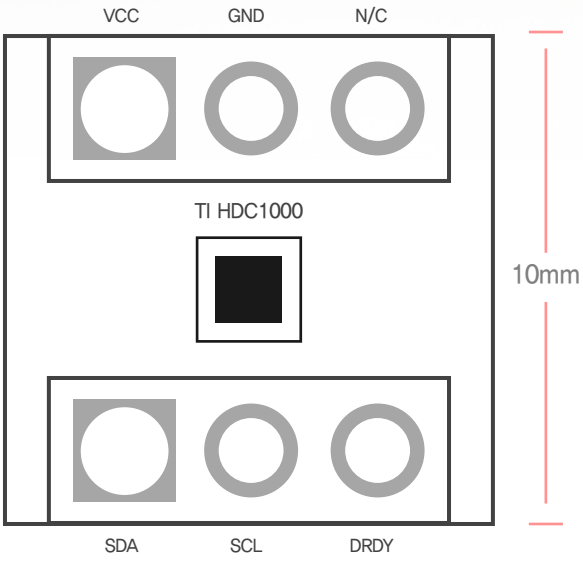
저전력으로 작동하는 온도와 습도 센서가 탑재 된 보드입니다.
열 적외선을 이용한 방식으로 온도를 측정합니다.

Texas Instruments社의 HDC1000 IC를 이용하여 제작되었으며 높은 정확도를 갖는 고성능 모듈입니다. Sleep mode 설정 시 200nA로 동작합니다.

개발에 용이하도록 2.54pitch의 홀 간격을 유지하였습니다.

Add. Prototype의 완성도를 높이기 위한 목적으로 초소형으로 제작하였습니다.

Dimensions



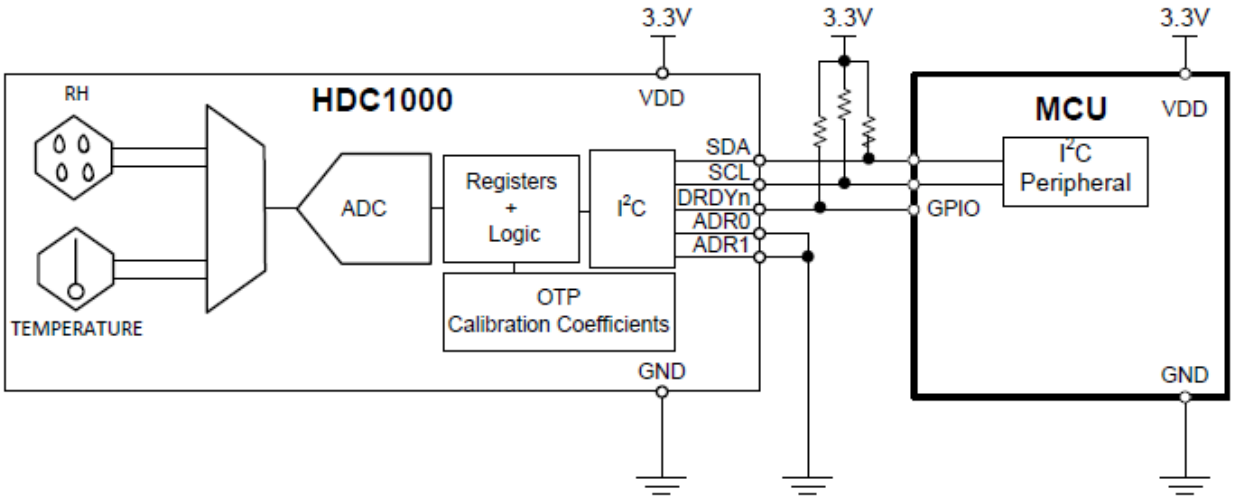
Features

- Relative Humidity (RH) Operating Range 0% to 100%
- 14 Bit Measurement Resolution
- Relative Humidity Accuracy ±3%
- Temperature Range
  - Operating −20° C to 85° C
  - Functional −40° C to 125° C
- Temperature Accuracy ±0.2° C
- 200nA Sleep Mode Current
- Average Supply Current:
  - 820 nA @ 1sps, 11 bit RH Measurement range.
  - 1.2 μ A @ 1sps, 11 bit RH and Temperature
- Supply Voltage 3 V to 5 V
- I2C Interface

Applications

- HVAC / • Smart Thermostats and Room Monitors
- White Goods / • Printers / • Handheld Meters
- Medical Devices / • Cargo Shipping
- Automotive Windshield Defog
- Wearable Devices / • Mobile Devices

Typical Application



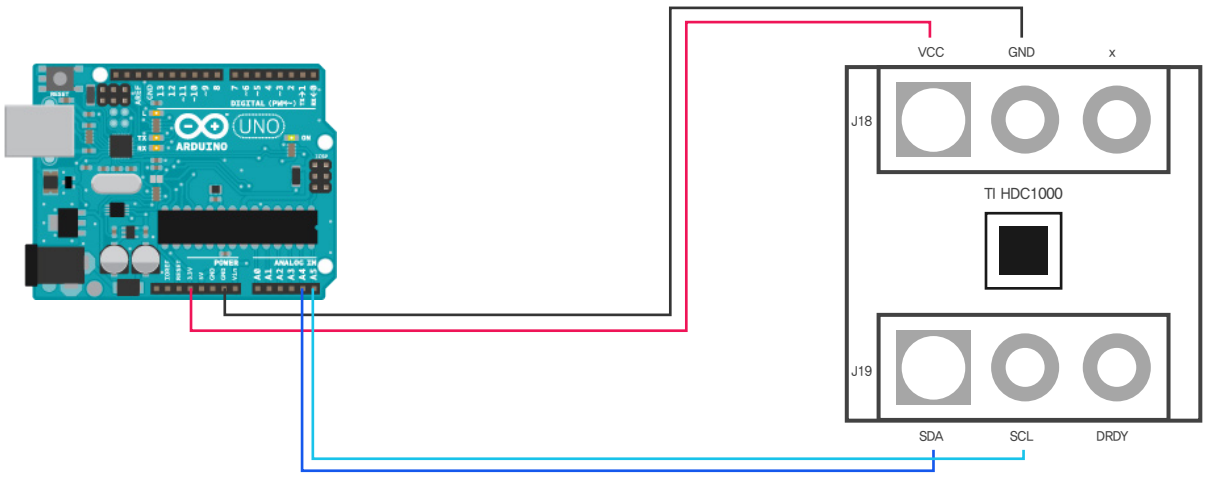
Pin Functions(Wiring)

HDC1000	Arduino Uno
VCC	3.3V
GND	GND
SDA	A4
SCL	A5

Includes

- Temperature and Humidity Sensor Module #2 1E/A
- Pin Header Single 1x3Pin Straight(2.54mm) 2E/A

아두이노 연결 예시



참고링크

HDC1000 Datasheet - http://www.ti.com/lit/ds/symlink/hdc1000.pdf

Arduino library - https://github.com/ftruzzi/HDC1000-Arduino