
keyestudio WiKi

keyestudio WiKi

Dec 08, 2025

KEYESTUDIO KS6079 KS6079S MODULE

1	1. Introduction	3
2	2.Specifications	5
3	3.Required Materials	7
4	4.Wiring Instructions(Arduino UNO R3)	9
5	5.Sample Code	11



1. INTRODUCTION

This tutorial explains how to use an **AHT20 Temperature and Humidity Sensor Module**. You will learn how to read the current ambient temperature and humidity.

2.SPECIFICATIONS

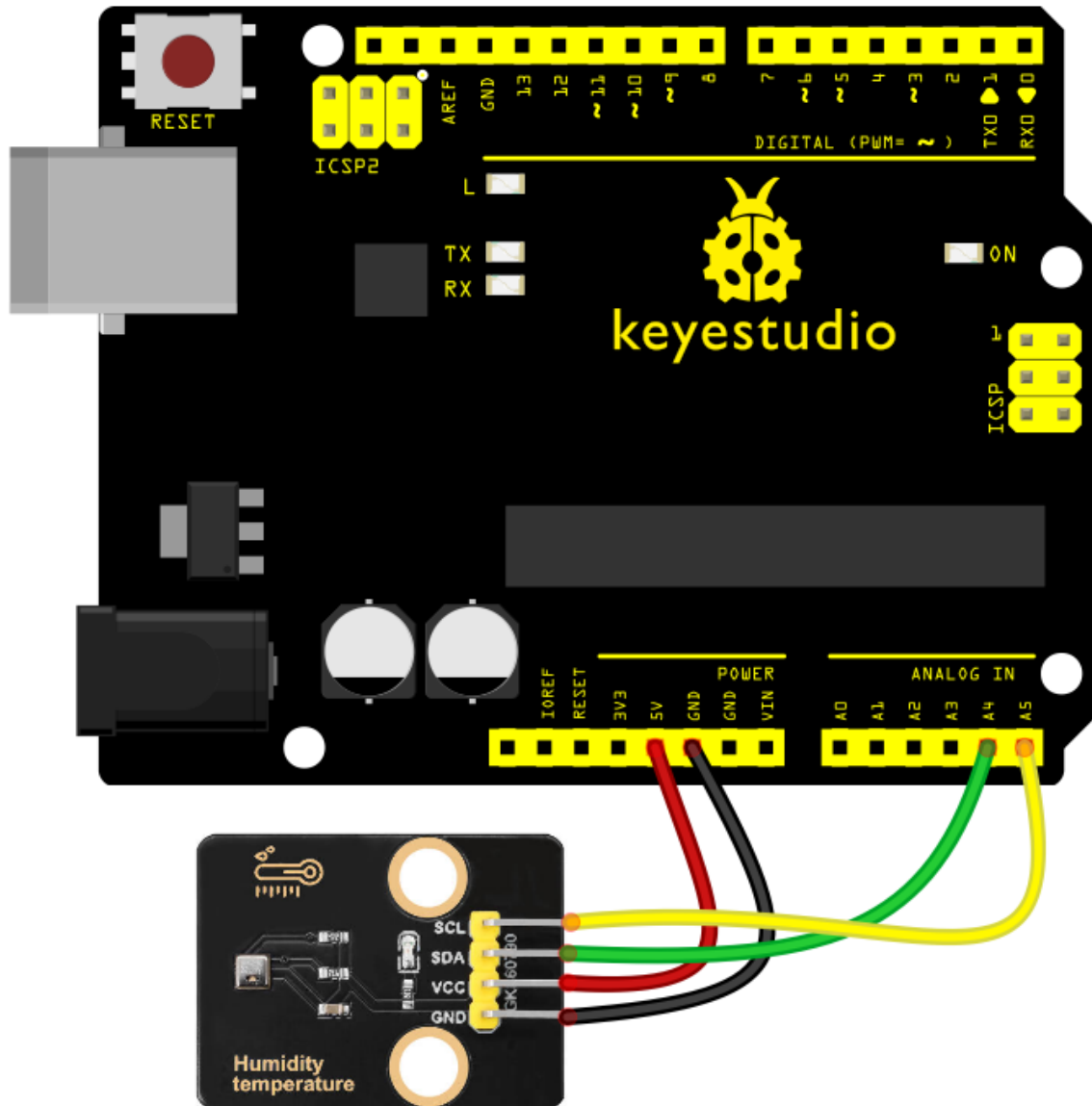
Parameter	Description
Operating Voltage	DC3.3–5V
Interface type	IIC
Temperature range	- 40 °C ~ + 120 °C
Humidity range	0%RH~100%RH
Dimensions	Length31 mm Width24 mm

3.REQUIRED MATERIALS

- Arduino Uno Compatible with ESP32, STM32, Raspberry Pi, and others
- keyestudio AHT20 Temperature and Humidity Sensor Module
- Jumper wires

4.WIRING INSTRUCTIONSARDUINO UNO R3)

AHT20 Module Pin	Arduino Pin
VCC	5V
GND	GND
SCL	A5
SDA	A4



5.SAMPLE CODE

Read Temperature and Humidity (Basic)

library downloadlibrary

Prints the temperature and humidity values to the serial monitor.

```
/******  
  
  Tests the getTemperature and getHumidity functions of the aht20 library  
*****/  
  
#include <Wire.h>  
#include <AHT20.h>  
AHT20 aht20;  
  
void setup()  
{  
  Serial.begin(115200);  
  Serial.println("Humidity AHT20 examples");  
  
  Wire.begin(); //Join I2C bus  
  //Check if the AHT20 will acknowledge  
  if (aht20.begin() == false)  
  {  
    Serial.println("AHT20 not detected. Please check wiring. Freezing.");  
    while (1);  
  }  
  Serial.println("AHT20 acknowledged.");  
}  
  
void loop()  
{  
  //If a new measurement is available  
  if (aht20.available() == true)  
  {  
    //Get the new temperature and humidity value  
    float temperature = aht20.getTemperature();  
    float humidity = aht20.getHumidity();  
  
    //Print the results  
    Serial.print("Temperature: ");
```

(continues on next page)

(continued from previous page)

```
Serial.print(temperature, 2);
Serial.print(" C\t");
Serial.print("Humidity: ");
Serial.print(humidity, 2);
Serial.print("% RH");

Serial.println();
}

//The AHT20 can respond with a reading every ~50ms. However, increased read time can
↳ cause the IC to heat around 1.0C above ambient.
//The datasheet recommends reading every 2 seconds.
delay(2000);
}
```

Experimental phenomena

After uploading the code using the Arduino IDE, open the Serial Monitor. You will observe that the values displayed on the serial monitor fluctuate with the changes in the temperature and humidity of the current environment. (You can cover the sensor area with your finger to simulate temperature changes.)