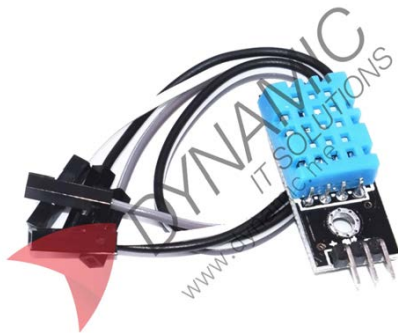


Temperature and Humidity Sensor

DHT11 Module



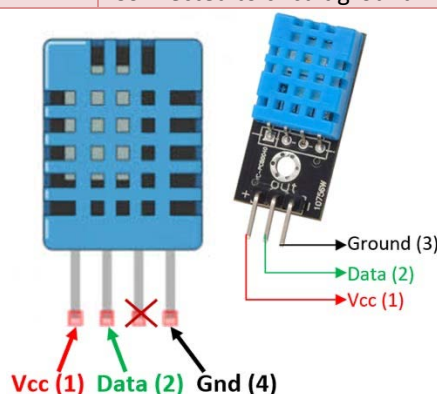
Features:

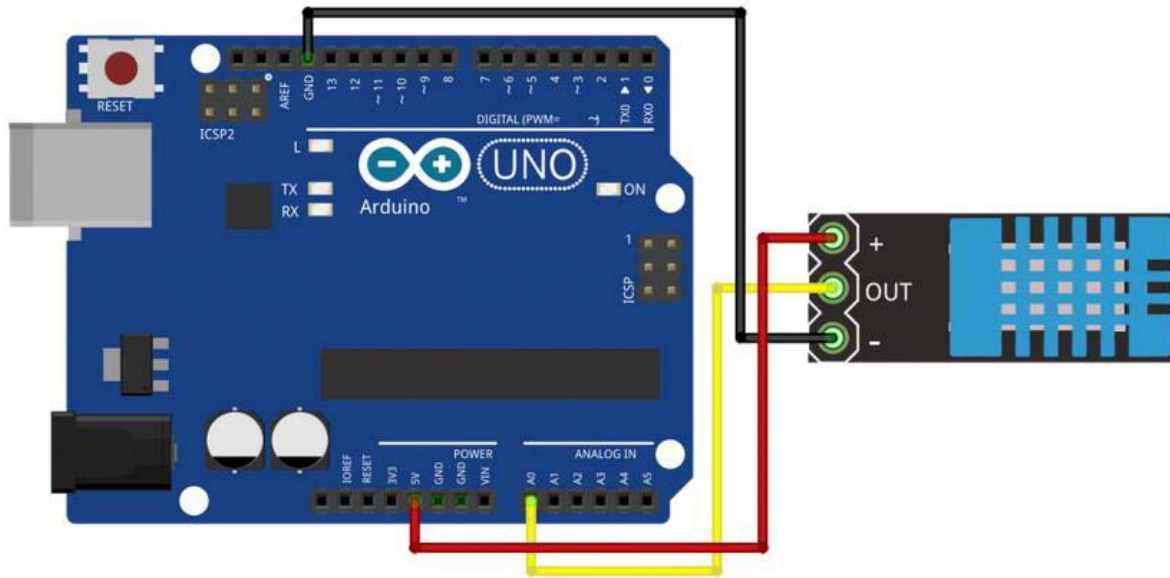
The DHT11 is a digital sensor that combines a capacitive humidity sensing element and a thermistor to measure the surrounding air. It integrates an 8-bit microcontroller to output calibrated digital signals, eliminating the need for analog signal processing. The sensor module includes a filtering capacitor and pull-up resistor, ensuring stable readings. It is widely used in weather stations, humidity control systems, and environmental monitoring applications.

Specifications	
Operating Voltage	3.5V to 5.5V
Operating Current	0.3mA (measuring), 60uA (standby)
Output	Type Serial Data
Temperature Range	0°C to 50°C
Humidity Range	20% to 90%
Resolution	16-bit
Accuracy	±1°C and ±1%
Built-in Components	Filtering Capacitor, Pull-up Resistor
Usage	Environmental and weather measurement

Pinouts:

Pin Name	Type	Description
Vcc +	Power	Power supply 3.5V to 5.5V
Out	Data	Output for Temperature and Humidity (serial)
Gnd -	Ground	Connected to circuit ground





Product Pictures:

