

# DHT22

## DHT22 Temperature and Humidity Module



- 3 to 5V power and I/O
- 2.5mA max current use during conversion (while requesting data)
- Good for 0-100% humidity readings with 2-5% accuracy
- Good for -40 to 80°C temperature readings  $\pm 0.5^{\circ}\text{C}$  accuracy
- No more than 0.5 Hz sampling rate (once every 2 seconds)
- Body size 27mm x 59mm x 13.5mm (1.05" x 2.32" x 0.53")
- 4 pins, 0.1" spacing
- The DHT22 is a basic, digital temperature and humidity sensor compatible with most microcontrollers including the Arduino
- It uses a capacitive humidity sensor and a thermistor to measure the surrounding air, and spits out a digital signal on the data pin (no analog input pins needed). Its fairly simple to use, but requires careful timing to grab data.
- The only real downside of this sensor is you can only get new data from it once every 2 seconds, so when using our library, sensor readings can be up to 2 seconds old.
- Simply connect the first pin on the left to 3-5V power, the second pin to your data input pin and the right most pin to ground.
- Although it uses a single-wire to send data it is not Dallas One Wire compatible!