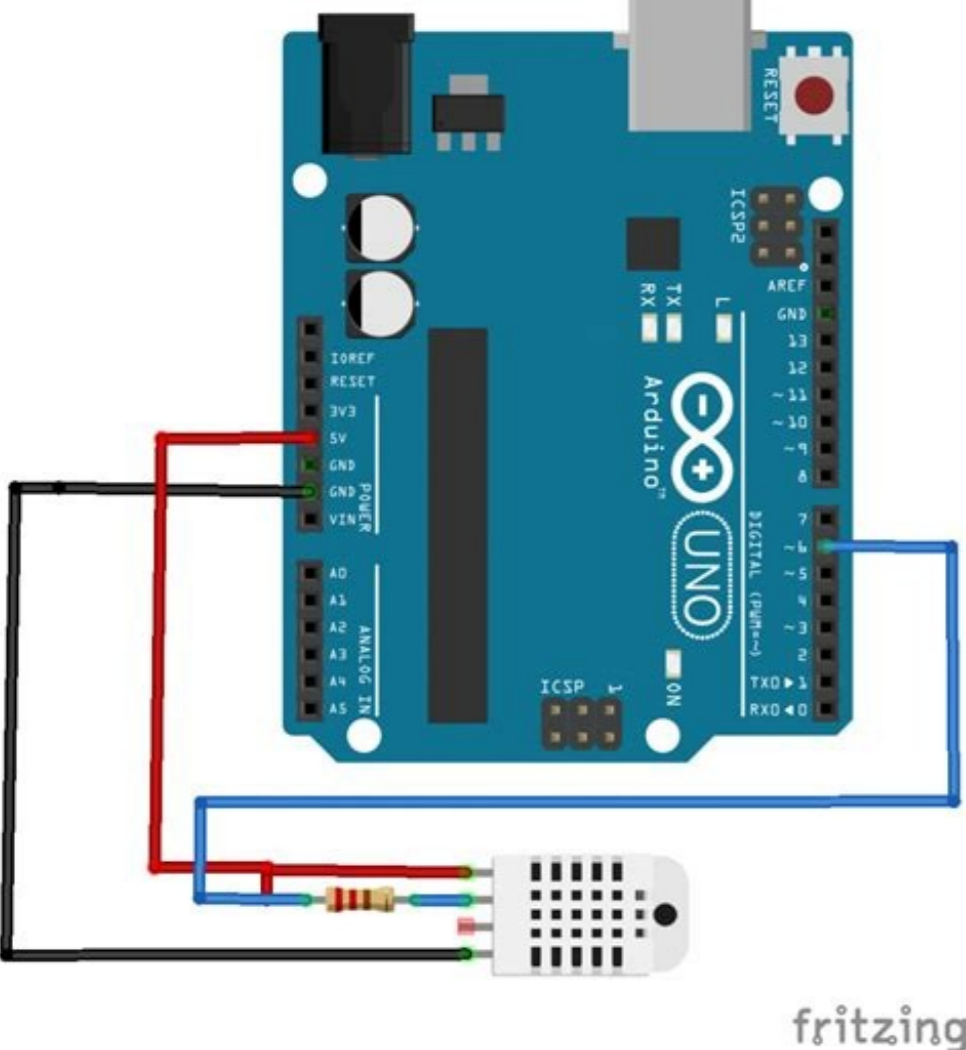
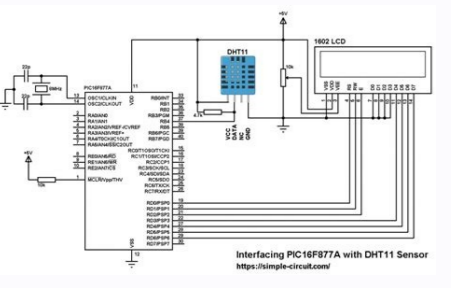
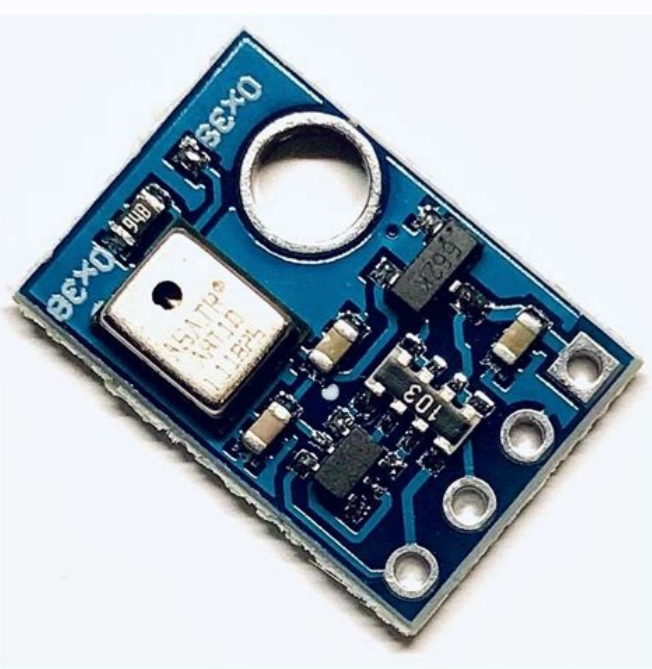


I'm not robot!



**Technical Specification:**

Model	DHT22
Power supply	3.3-6V DC
Output signal	digital signal via single-bus
Sensing element	Polymer capacitor
Operating range	humidity 0-100%RH; temperature -40-80Celsius
Accuracy	humidity +2%RH(Max +5%RH); temperature <+-0.5Celsius
Resolution or sensitivity	humidity 0.1%RH; temperature 0.1Celsius
Repeatability	humidity +-1%RH; temperature +-0.2Celsius
Humidity hysteresis	+0.3%RH
Long-term Stability	+0.5%RH/year
Sensing period	Average: 2s
Interchangeability	fully interchangeable
Dimensions	small size 14*18*5.5mm; big size 22*28*5mm



Am2320 digital temperature and humidity sensor. Am2320 temperature and humidity sensor. Am2320 datasheet.

Digital Temperature and Humidity Sensor Digital Temperature and Humidity Sensor Part AM2320 Description Digital Temperature and Humidity Sensor Feature Digital Temperature and Humidity Sensor AM2320 Product Manual Product Features: Ultra-small size Super cost-effective Ultra-low voltage operation Excellent long-term stability Standard I2C and single-bus output For more information, please visit: www. a o song .com 1. Product overview Temperat ure and humidity combined sensor AM2320 digital temperature and humidity senso r is a digital signal output has been c alibrated. Using special temperature an d humidity acquisition technology, ensu re that the product has a very high rel iability and excellent long-term stabl ity. Sensor consists of . Manufacture Aosong Datasheet Download AM2320 Datasheet Part AM2320 Description Digital Temperature and Humidity Sensor Feature Digital Temperature and Humidity Sensor AM2320 Product Manual Product Features: Ultra-small size Super cost-ef fective Ultra-low voltage operation Excellent long-term stability Standard I2C and single-bus output For more information, please visit: www. a o song .com 1. Product overview Temperat ure and humidity combined sensor AM2320 digital temperature and humidity senso r is a digital signal output has been c alibrated. Using special temperature an d humidity acquisition technology, ensu re that the product has a very high rel iability and excellent long-term stabl ity. Sensor consists of . Manufacture Aosong Datasheet Download AM2320 Datasheet Recommended third-party AM2320 Datasheet This little sensor looks an awful lot like the popular DHT11/DHT22 temperature and humidity sensors, but unlike classic DHT sensors, it has an I2C interface! That's right, you do not need to use a bit-bang timing-specific protocol to talk to the AM2320, it uses plain-old-I2C. Whew, that makes things a little easier, doesn't it?But! We'll let you know, this sensor is not well documented like our other, fancier I2C temperature & humidity sensors. The datasheet mentions it has 3% humidity accuracy, 0.5C temperature accuracy, but we're not very trusting of the specifications. So, while this sensor does seem to work, it's not recommended for anything where you care deeply about guaranteed accuracy. Temperature is probably correct to 2-3 degrees Celsius. Humidity is probably within 5-10%.That said, for maker and IoT projects? You can't beat the simplicity and price! And we've got ready-to-go working Arduino and CircuitPython code to use it. Check out our detailed guide for wiring diagrams, code, datasheet and moreEach order comes with one AM2320, a low-cost temperature and humidity sensor. You just provide any microcontroller that can run our Arduino or CircuitPython library, and two I2C pull-up resistors (not included). Part Number : AM2320 Function : Digital Temperature and Humidity Sensor Package : 4Pin Manufacturers : AOSONG Image : Description : Temperature and humidity combined sensor AM2320 digital temperature and humidity sensor is a digital signal output has been calibrated. Using special temperature and humidity acquisition technology, ensure that the product has a very high reliability and excellent long-term stability. Sensor consists of a capacitive moisture element and an integrated high-precision temperature measurement devices, and connected with a high-performance microprocessor. The product has excellent quality, super fast response, strong anti-interference ability, very high property price rate. Pinout : Applications : HVAC, dehumidifiers, testing and inspection equipment, consumer goods, automotive, automation, data loggers, gas stations, home appliances, humidity control, medical, and other relevant humidity measurement and control. AM2320 Datasheet PDF Download Related articles across the web No Preview Available ! Digital Temperature and Humidity Sensor AOSONG Product Manual Product Features: Ultra-small size Super cost-effective Ultra-low voltage operation Excellent long-term stability Standard I2C and single-bus output For more information, please visit: www. aosong .com 2 SDA Serial data, bidirectional port 3 GND Ground 4 SCL Serial clock input port (single bus ground) 7.2 Power supply pin (VDD GND) AM2320 supply voltage range of 3.1V - 5.5V. 7.3 Serial clock input (SCL) The SCL pin is used to communicate the choice and I 2 C sensor communication clock line. When the power is held low while SCL remains low even 500ms, which means that the user selects a single bus mode of communication, otherwise I 2 C communications; After selecting the formula mode during power, sensor communication mode remains unchanged; If you want to change communication, re-power on, press the select operation requires communication. When choosing the I 2 C communication between microprocessor and AM2320.SCL for the synchronous communication. 7.4 Serial data(SDA) SDA pin is three-state structure for reading, writing sensor data. Detailed Description of specific communication sequence, see communication method.. 8. I 2 C and a single bus AM2320 serial interface, and power consumption reading sensor signal aspects are optimized processing. Sensor uses a single bus, I 2 C outputs two communication modes, communication can be switched freely, easy to use. SCL bus signal line to level when power to determine their bus communication: SCL is held low on power as a single bus communication mode; SCL remain high when compared to the power of communication modes I 2 C. Single bus is fully compatible with the company's other products, single-bus communication; I 2 C communication in accordance with standard protocols addressing, can be directly linked to the I 2 C bus (the bus is only allowed to hang a product), without additional wiring, operation simple. Read AM2320 sensors, strictly in accordance with the agreement of the two communication methods and timing proceed. Specific details see single communication protocol and I 2 C bus communication protocol detailed. 8.1 I 2 C standard communication protocol introduced 8.1.1 I 2 introduction to C-bus Another form of AM2320 processor and micro controller interface is I 2 C serial bus, in this brief introduction about the I 2 C bus protocol standards. Due to space limitations, can't list all the contents of the agreement deeper questions, please consult the relevant information (refer to the Philips website access). 8.1.2 I 2 C Bus Overview Philips (Philips) at 20 years ago invented a simple two-wire bidirectional serial communication bus, the bus is called the Inter-I 2 C bus. Currently I 2 C bus has become the industry standard solution for embedded application, is widely used in a variety of professional-based micro controller, -4- best communication with the sensor results, designed in strict compliance with the conditions of Figure 13 and Table 6 design. Figure 1 13 3: AM2320 typical application circuit I2C bus and timing diagram Table 6 : AM2320 sensor C interface characteristics Symbol Parameters Standard C mode Unit min Max SCL clock frequency 100 kHz T w (SCLL) T w (SCLH) SCL Clock low time SCL Clock high time 4.7 4.0 μs T s u (SDA) SDA Settling time 250 T h (SDA) SDA Data hold time T r (SDA) T r (SCL) SDA and SCL Rise time 1000 ns T f (SDA) T f (SCL) SDA and SCL Fall Time 300 T h (STA) T s u (STA) T s u (STO) T w (STO:STA) Start condition hold time Repeated Start condition setup time Stop condition setup time Stop to Start condition time (bus idle) 4.0 4.7 4.0 4.7 μs μs μs C b Capacitive load for each bus 400 P F 8.2.3 Communication protocol I 2 C protocol AM2320 sensor is based on the standard I 2 C bus protocol, the reference to the Mod Bus protocol, according to AM2320 sensor itself features a combination of I 2 C Mod Bus agreement. Specific format is as follows: @Communication data (information frame) format Data formats: Data length: @ I 2 C data+WR Function Code Data Area CRC 1 byte 1 byte N-byte 16-bit CRC (cyclic redundancy code) Communication and information transfer process When a command is sent by the sending communication device (host) to the sensor, the command line with the sensor address, the sensor was to receive, and read the information in -10- Aosong Digital Temperature and Humidity Sensor Aosong Digital Temperature and Humidity Sensor Part AM2320 Description Digital Temperature and Humidity Sensor Maker Aosong PDF Download AM2320 Datasheet PDF 1 AM2320 Digital Temperature and Humidity Sensor Aosong 2 AM2320-7 50 Watt DC-DC Converters Power-One 3 AM2320NE N-Channel MOSFET Analog Power 4 AM2321 Digital temperature and humidity sensor Aosong 5 AM2321P P-Channel MOSFET Analog Power 6 AM2321PE P-Channel MOSFET Analog Power 7 AM2322N N-Channel MOSFET Analog Power 8 AM2323P P-Channel 20-V (D-S) MOSFET Analog Power 9 AM2324N N-Channel MOSFET Analog Power 0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z This is a individually operated, non profit site. If this site is good enough to show, please introduce this site to others. Since 2010 :: HOME :: Privacy Policy + Contact 2 SDA Serial data, bidirectional port 3 GND Ground 4 SCL Serial clock input port (single bus ground) 7.2 Power supply pin (VDD GND) AM2320 supply voltage range of 3.1V - 5.5V. 7.3 Serial clock input (SCL) The SCL pin is used to communicate the choice and I 2 C sensor communication clock line. When the power is held low while SCL remains low even 500ms, which means that the user selects a single bus mode of communication, otherwise I 2 C communications; After selecting the formula mode during power, sensor communication mode remains unchanged; If you want to change communication, re-power on, press the select operation requires communication. When choosing the I 2 C communication between microprocessor and AM2320.SCL for the synchronous communication. 7.4 Serial data(SDA) SDA pin is three-state structure for reading, writing sensor data. 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