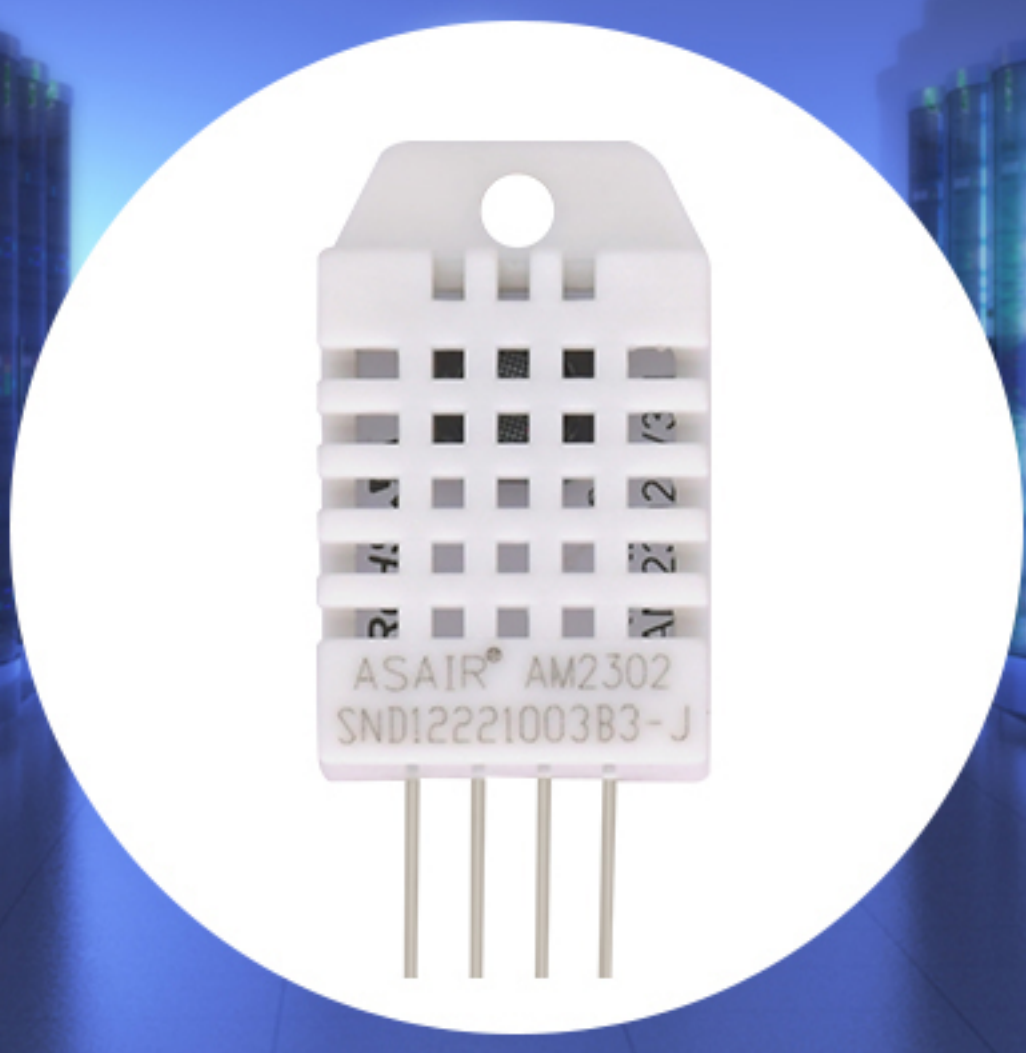
AM2302

TEMPERATURE AND HUMIDITY SENSOR

- ☑ Full calibration
- ☑ Digital one-wire output
- ☑ Excellent long-term stability
- ☑ Quick response
- ☑ Strong anti-interference ability



AM2302 Temperature and Humidity Sensor

high reliability 、 excellent long-term stability

AM2302 Digital Temperature and Humidity Module has digital signal output. It applies special digital module acquisition technology and temperature and humidity sensing technology, which ensures the product has high reliability and excellent long-term stability. The product has the advantages of excellent quality, ultra-fast response, strong anti-interference ability.

Each sensor is fully calibrated. Standard one-wire interface makes system integration easy and fast. Ultra-small size, very low power consumption, Signal transmission distance can reach more than 20 meters, making it the best choice for all kinds of applications.

Supply Voltage：3.3 ~ 5.5V

Power consumption：
15 μA(Sleep)、1200 μA(measuring)

Sampling period：2S

Repeatability：
±0.1 %RH、±0.1℃

Accuracy：±2% RH、±0.5℃

Measuring range：0~99.9% RH、-40~80℃

ASAIR APPLICATIONS >>

HVAC system, dehumidifier, test and inspection equipment, consumer goods, automobiles, automatic control, data recorder, weather station, household appliances, humidity regulation, medical and other related temperature and humidity detection and control.


Automobiles


HVAC


Weather Station

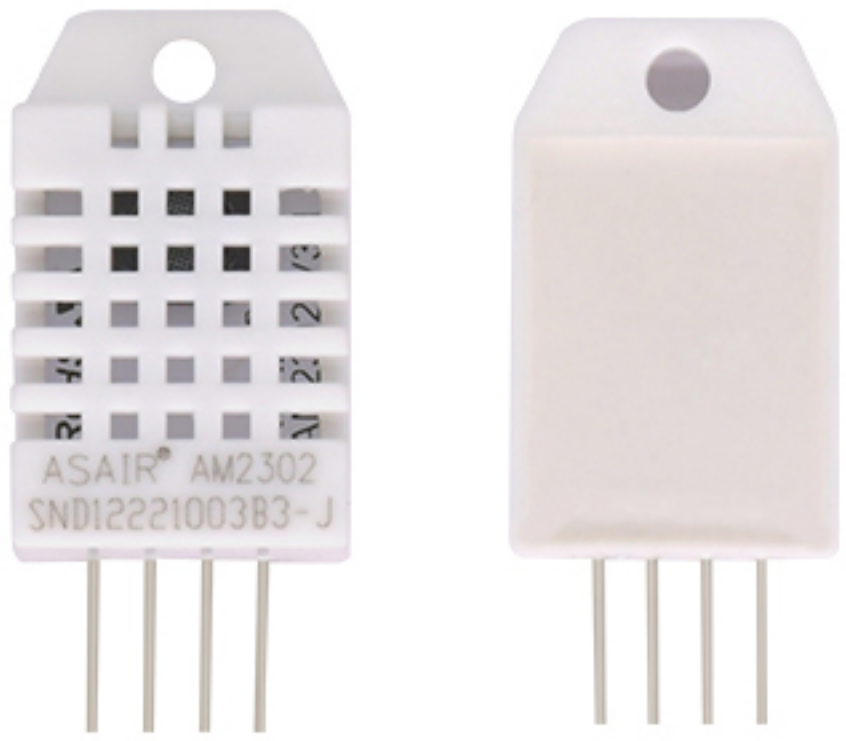

Household Appliances


Consumer Goods

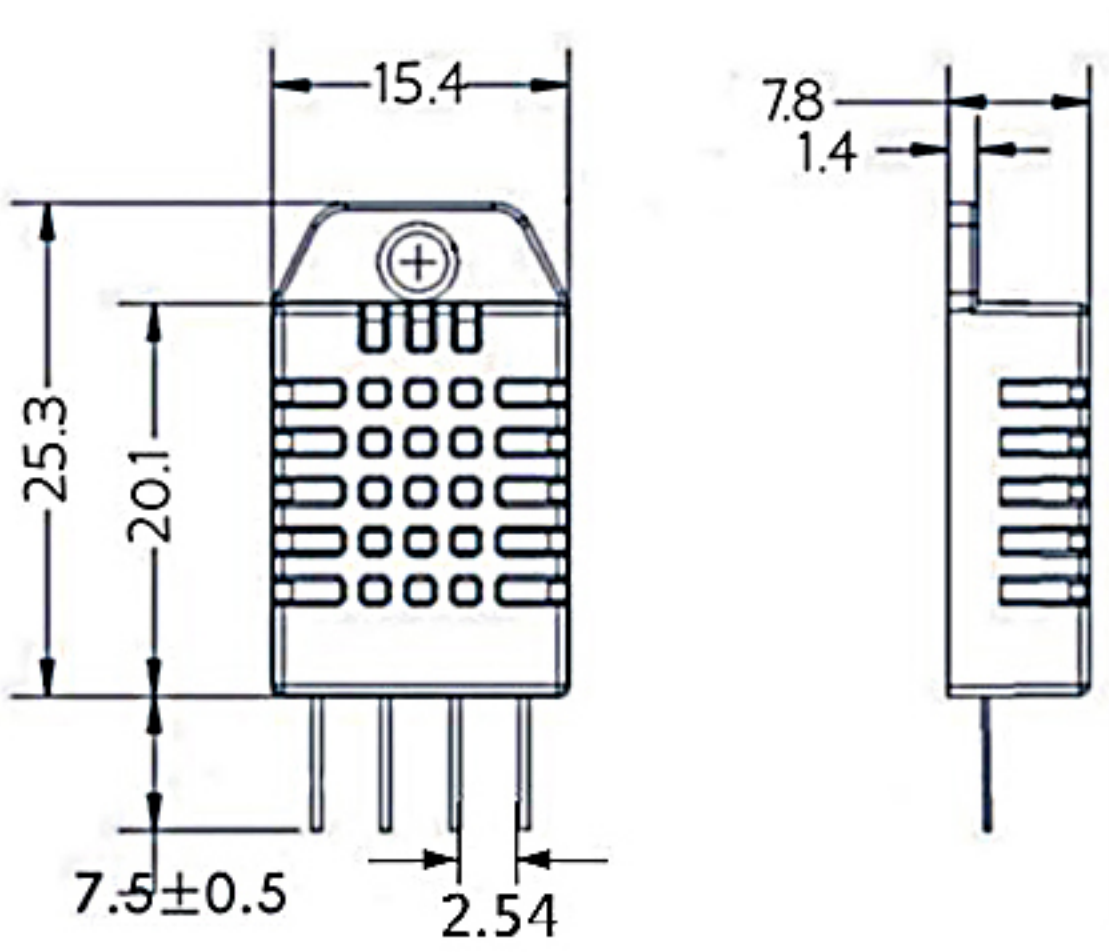

Medical


Dehumidifier

ASAIR SPECIFICATIONS >>

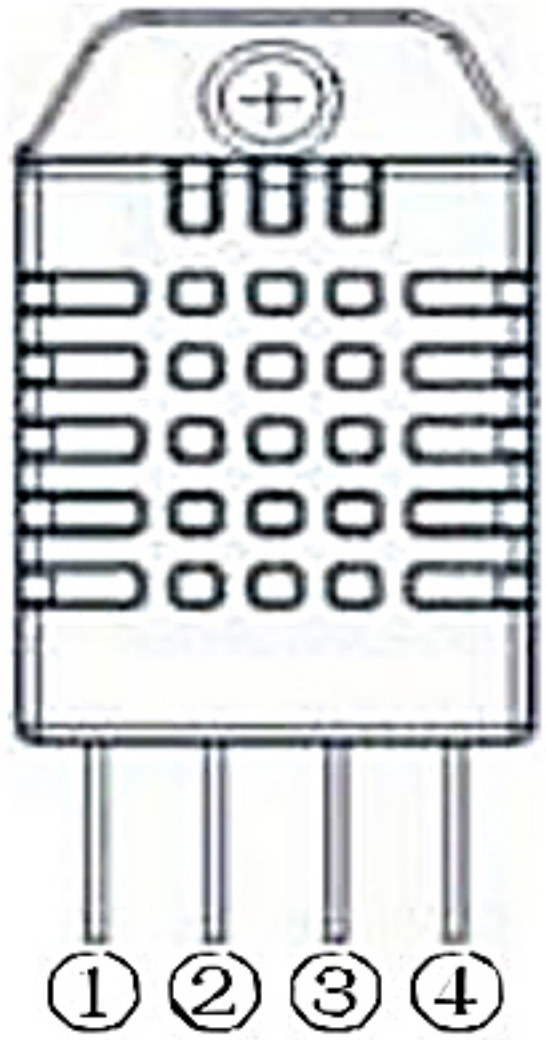


Model	AM2302
Supply Voltage	3.3~5.5V
Power consumption	15μA(Sleep)、1200μA(measuring)
Low level output voltage	0~300mV
High level output voltage	90%~100%VDD
Low level input voltage	0~30%VDD
High level input voltage	70%~100%VDD
Output current	8mA(Open)、20μA(Tri-state(turn off))
Sampling period	2S
Measuring range	0~99.9%RH、-40~80℃
Accuracy	±2%RH、±0.5℃
Repeatability	±0.1%RH、±0.1℃
Interchangeability	Completely interchangeable
Response time	<8S(Relative humidity)、＜8S(Temperature)
Hysteresis	±1%RH
Drift	<1%RH/yr、±0.3℃/yr



AM2302 Dimensions（Unit: mm）

ASAIR INTERFACE DEFINITION >>



AM2302 Interface definition description

Pin	Name	Descripition
1	VDD	Power (3.3V-5.5V)
2	SDA	Serial data,two-way port
3	GND	Ground
4	NC	No Connection