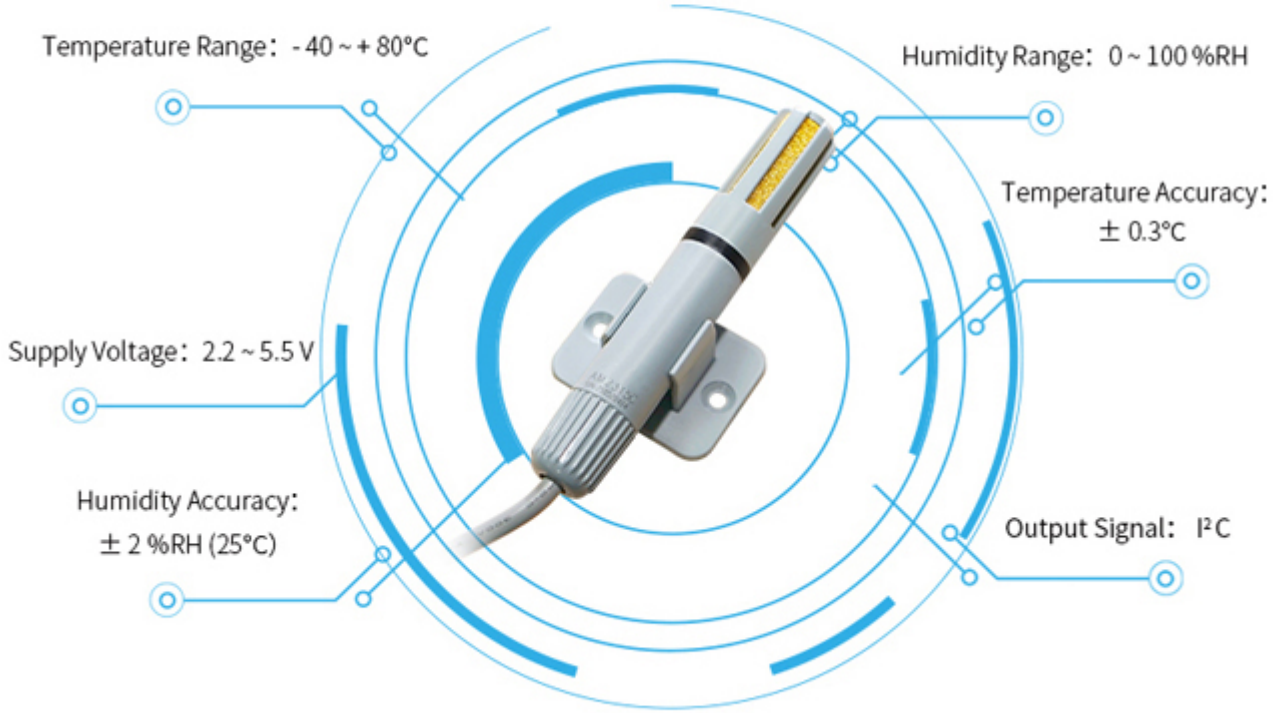
RH&T Sensors Smart home ventilation high precision and high sensitive I2C humidity and temperature sensor module

Supply voltage	DC 2.2-5.5V
Measuring range (temperature)	-40~+80℃
Measurement range (humidity)	0~100%RH
Temperature accuracy	±0.3℃
Humidity accuracy	±2%RH
Resolution Temperature	0.01℃ Humidity: 0.024%RH
Repeatability Temperature	±0.1℃ Humidity: ±0.1%RH
Sensor	Capacitive humidity sensor
Output Signal	I²C signal
Shell material	ABS+PC plastic

AM2315C consists of ASIC dedicated chip, an improved MEMS capacitive humidity sensor and a standard on-chip temperature sensor. The performance and reliability have been greatly improved, surpassing the level of the previous generations. The new generation sensor module has a more stable performance in harsh environment. At the same time, AM2315C has higher cost-effectiveness and applicability, due to the improvement from miniaturization.

SPECIFICATIONS >>

ASIC chip, an improved MEMS capacitive humidity sensor and a temperature sensor. The performance and reliability have been greatly improved. The new generation sensor module has a more stable performance even in harsh environment.



Technical Parameters:

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Product Highlights:

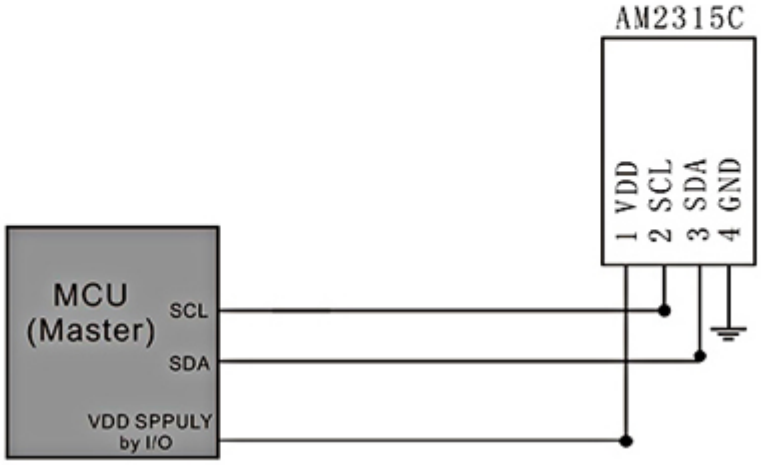
- Relative humidity and temperature output
- Superior sensor performance, typical accuracy RH: ±2%, T:±0.3℃
- Fully calibrated and processed digital output, I²C protocol
- Wide voltage support 2.2 to 5.5V DC
- Excellent long-term stability
- Fast-response and anti-interference capability

APPLICATIONS >>

The AM2315C humidity and temperature sensor with digital I²C output. It can be used in HVAC, dehumidifier, testing and inspection equipment, consumer products, automobiles, automatic control, data loggers, weather stations, home appliances, humidity control, medical and other fields.

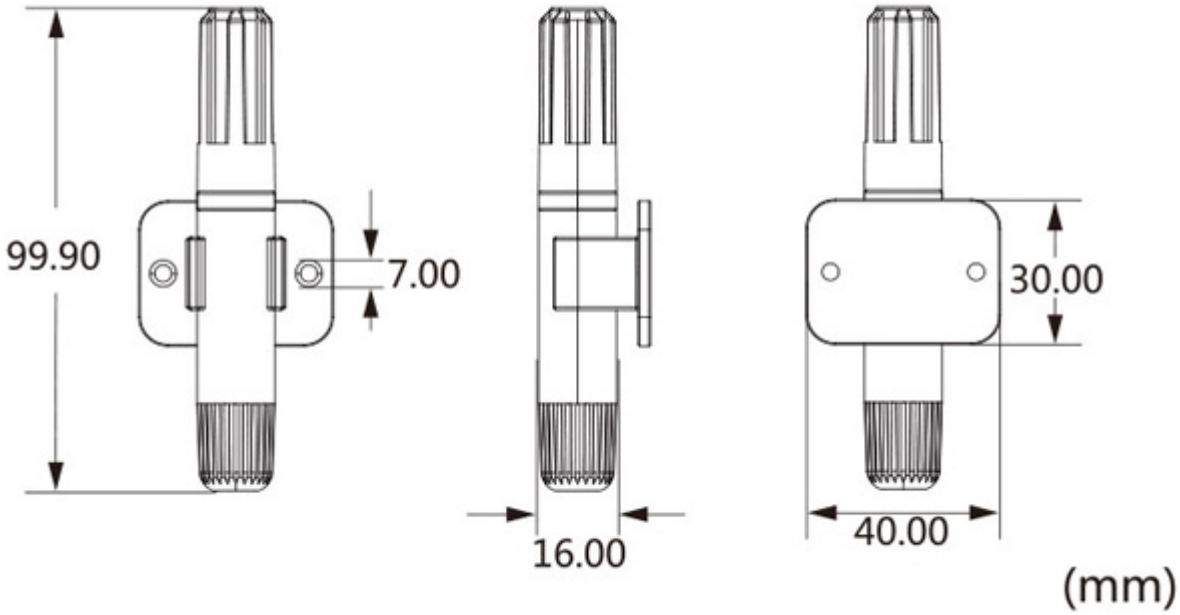
The AM2315C is a kind of sensor of humidity and temperature with digital I²C output. It can be applied to HVAC, dehumidifier, testing and inspection equipment, consumer products, automobiles, automatic control, data loggers, weather stations, home appliances, humidity control, medical and other application fields which need to detect and control temperature and humidity.

INTERFACE DEFINITION >>



AM2315C Sensor pin definition

Pins	Name	Description
1 (Red)	VDD	Power supply(2.2V to 5.5V)
2 (White)	SCL	Serial Clock, Bidirectional Port
3 (Yellow)	SDA	Serial Data, Bidirectional Port
4 (Black)	GND	Ground


99.90
7.00
16.00
30.00
40.00
(mm)

Approval Certification:

Why Choose US :

1.Established in 2005, about 10 years of history;
2.Owns main factories, supply diversification products and One stop service service
3.Certificates of ISO9001, UL, CE, SGS,EMC,CQC,Reach,etc
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6.Monthly export more than 50 times delivery;
7.Exported to more than 20 countries and regions;
8.We provide an excellent combination between prices, quality & respond,delivery,after-sales!

Order program

send us inquiry

receive our quotation

negotiate details

mass production

sign contract / deposit

confirm the sample

cargo ready

balance / delivery

further cooperation