



*Your specialist in innovating humidity & temperature sensors*



Capacitive humidity sensor --Voltage output, Model: AM2001/AMT2001

#### 1. Feature & Application:

- \*Full range temperature compensated
- \*0-3V DC output for humidity
- \*Humidity Accuracy  $\pm 3.0\%RH$
- \*Range 0 to 100% RH
- \*Light weight, easy installation

The outstanding accuracy of AM2001/AMT2001 over the entire range is based on very precise calibration methods and the latest microprocessor technology. Well-proven Aosong capacitive humidity sensor ensure excellent long-term stability.

#### 2. Technical Specification:

Model AM2001 only detect relative humidity, AMT2001 detect relative humidity and temperature both.

Model	AM2001
Power	4.5-6V DC
Output signal	0- 3V DC for humidity
Accuracy	humidity $\pm 3\%RH$
Working range	humidity 0-100%RH, temperature 0~80 Celsius
Resolution or sensitivity	humidity 0.1%RH;
Humidity hysteresis	$\pm 0.3\%RH$
Long-term Stability	$\pm 0.5\%RH/year$
Interchangeability	fully interchangeable
Response time	<10s



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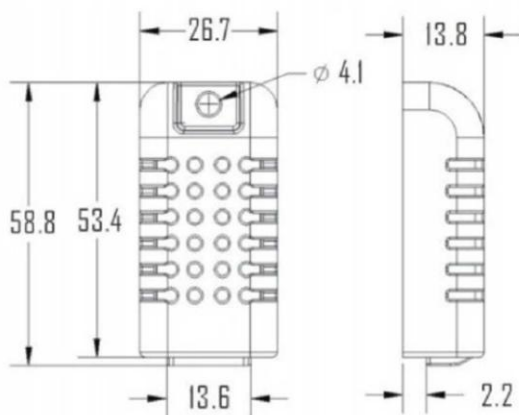
Model	AMT2001
Power	4.5-6V DC
Output signal	0- 3V DC for humidity, 0~0.8V DC for temperature
Accuracy	humidity $\pm 3\%RH$ , temperature $\pm 0.5$ Celsius
Working range	humidity 0-100%RH, temperature 0~80 Celsius
Resolution or sensitivity	humidity 0.1%RH, temperature 0.1 Celsius
Humidity hysteresis	$\pm 0.3\%RH$
Long-term Stability	$\pm 0.5\%RH/year$
Interchangeability	fully interchangeable
Response time	<10s

### 3. Electrical connection:

AM2001	
Red wire	Power supply
Yellow wire	Humidity output
Black wire	GND

AMT2001	
Red wire	Power supply
Yellow wire	Humidity output
White wire	Temperature output
Black wire	GND

### 4. Dimensions(unit: mm)

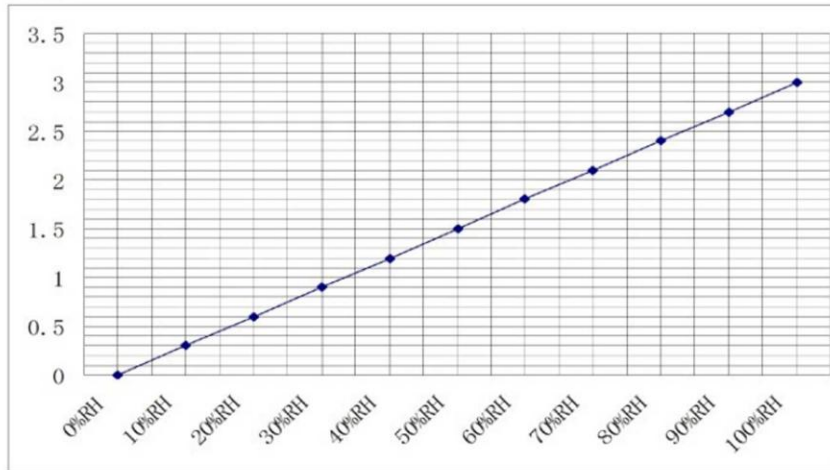


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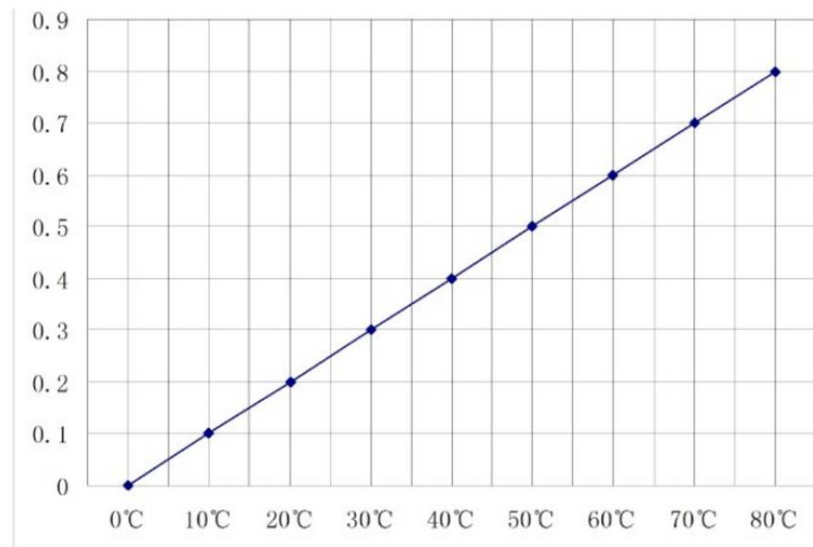
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**Voltage**



**RH**

**Voltage**



**Temperature**

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#### **6. Error and sources of error:**

Measure values maybe influenced by follow factors:

Humidity errors

Equilibration time too short, steam, water sprays, dripping water or condensation at the sensor, etc.

Temperature errors

Equilibration time too short, cold or hot outside wall, sunlights, heating elements, etc.

#### **7. Cautions:**

Proper location of the room humidity sensor is important to ensure accurate measurement of representative air samples. Place the sensor in an area of room that has good air circulation. Install the sensor on a flat interior surface, approximately 1.4m from the floor.

Avoid locating the sensor:

- \* Near heat sources, such as radiant heat from the sun, heat from appliances, or from concealed pipe or chimneys
- \* In areas subject to draft
- \* Behind doors, draperies, or in corners
- \* On walls having excessive vibration
- \* In corrosive environments such as swimming pools or hospital rooms

#### **8. Warnings:**

Don't use this item on safety or emergency stop devices and any other application which may cause injury due to the failure of this item.

#### **9. Quality Warranty:**

Aosong warrants that this product will be free from defects in materials and workmanship for a period of 365 days from the date of shipment. If any such product proves defective during this warranty period, Aosong, at its option, either will repair the defective product without charge for parts and labor, or will provide a replacement for the defective product.

In order to obtain service under this warranty, customer must notify Aosong of the defect before the expiration of the warranty period and make proper prove for the defect. Customer shall be responsible for packaging and shipping the defective product to the service center designated by Aosong, with shipping charges prepaid. Aosong shall pay for the return of the product to customer if the shipment is to a location within the country in which the Aosong service center is located. Customer shall be responsible for paying all shipping charges, duties, taxes, and any other charges for products returned to any other locations.

This warranty shall not apply to any defect, failure or damage caused by improper use or improper or inadequate maintenance and care. Aosong shall not be obligated to furnish service under this warranty

- a) to repair damage resulting from attempts by personnel other than Aosong representatives to repair the product;



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b) to repair damage resulting from improper use or connection to incompatible equipment;

c) to service a product that has been modified or integrated with other products when the effect of such modification or integration increases the time or difficulty of servicing the product.

Special notes: quality problem caused by following reasons is not warranted:

(1): Damaged by human factor

(2): Application beyond the using range as stated in product's technical specification

(3): Damaged by corrosive or acid or alkaline air