

# Humidity Sensor Module

This humidity sensor has a rated voltage of 5V and provides output with  $\pm 3\%$  RH accuracy. The sensor's output range spans from 0 to 100% RH and it has a humidity response time of d 30s.



## Overview

### High-Precision Humidity Sensing

This humidity sensor module is designed for reliable environmental monitoring, offering a wide sensing range from 0% to 100% RH. With an accuracy of  $\pm 3\%$  RH and a responsive design featuring a response time of d30 seconds, it ensures precise data acquisition. The module supports both analog and digital output control, making it versatile for integration into various climate control and detection systems.

## Technical Specifications

### 产品特点 FEATURES

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| <p><b>01</b> 额定电压5V<br/>Rated voltage 5V</p> <p><b>02</b> 输出精度<math>\pm 3\%</math>RH<br/>Output accuracy <math>\pm 3\%</math> RH</p> <p><b>03</b> 输出范围: 0~100%RH<br/>Output range: 0 ~ 100% RH</p> | <p><b>04</b> 输出控制: 模拟输出和数字输出<br/>Output control: analog output and digital output</p> <p><b>05</b> 湿度反应时间: <math>\leq 30s</math><br/>Humidity response time: <math>\leq 30s</math></p> <p><b>06</b> 工作温度: <math>-40^{\circ}C \sim +105^{\circ}C</math><br/>Operating temperature - 40 °C ~ + 105 °C</p> |
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### 应用领域 APPLICATION

- 用于汽车和家用空调、冰箱除雾及除霜检测  
Used for defogging and defrosting detection of automobile and household air conditioner and refrigerator

Technical overview highlighting voltage, accuracy, and operational range.

Rated Voltage	5 V
Output Accuracy	$\pm 3\%$ RH
Output Range	0 ~ 100% RH
Humidity Response Time	d 30
Operating Temperature	$-40^{\circ}C \sim +105^{\circ}C$
Output Control	Analog Output, Digital Output

## Applications

### Typical Applications

- Automobile air conditioning systems
- Household air conditioning units
- Refrigerator defogging detection
- Refrigerator defrosting detection