Temperature and Humidity Sensor

Product model: SEN101-2001

The SEN101-2001 temperature and humidity sensor features a wall-mounted installation and utilizes premium digital sensor components. With an industrial-grade microprocessor and advanced digital-to-analog conversion, this sensor ensures exceptional reliability, high precision, and excellent interchangeability.It is widely applicable in building automation, climate control, HVAC signal acquisition, greenhouses, and the pharmaceutical and chemical industries.

Features

- ☑ High measurement accuracy
- ☑ Built-in high-performance microprocessor
- ☑ A variety of probes are available
- ☑ Integrated use of temperature and humidity
- ☑ Superior performance, good long-term stability



Scope of application

- ◇ Widely used in building automation
- ◇ Agricultural greenhouses, flower cultivation, etc.
- ◇ Greenhouses and pharmaceutical and chemical industries, etc.

Technical Parameters

Probe temperature	-40~+80℃	Probe to measure humidity	Relative humidity 0%~100%RH
Signal output	4~20mA/0~5VDC/0~10VDC	RS485 output (Modbus protocol)	
Operating Voltage	10~30VDC	Note: 0~10VDC output (limited to 24VDC power supply)	
Maximum power consumption	Analog signal (voltage/current 1.2W MAX.)	Digital signal ≤0.4W	
Precision	Temperature: ±0.5℃(25℃)	Humidity: ±3%RH (5%RH~95%RH, 25℃)	
Long-term stability	Temperature: ≤0.1℃/year	Humidity: ≤0.1%RH/year	
Response time	Temperature: ≤18/sec (1m/s wind speed)	Humidity: ≤6 seconds (1m/s wind speed)	
Sensor body working temperature	-40~80℃, 0%RH~100%RH		
Digital output	Device address	1~255 can be set, the default is 1	
	Device baud rate	4800, 9600, 19200, 38400, 57600, 115200 optional, default 9600	
	Byte format	8 data bits, 1 stop bit, no parity	
Electrical connections	Direct out		

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Product size and wiring method



