IOT-S300TH

RS485 Temperature and Humidity Sensor

IOT-S300TH temperature and humidity sensor adopts wall-mounted installation, built-in imported digital temperature and humidity sensor components, through industrial- grade microprocessor and digital-to-analog conversion processing, to ensure that the product output has excellent reliability, high precision and good interchangeability. It is widely used in building automation, climate and HVAC signal acquisition, greenhouses, and 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.

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Technical Parameters

Probe temperature	-40~+120℃, default -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	-20~60℃, 0%RH~80%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		

Product size and wiring method

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