

# WALL TYPE T&H Transmitter

— 4-20mA, 0-5VDC, 0-10VDC, RS485 OUTPUT —

Model No.: SR300S



# General Specifications

# SR300S

## ■ Overview

SR300S is high quality wall type temperature and humidity sensor, adopting Switzerland advanced sensor module and high performance single chip designed for temperature humidity measurement indoor room, widely used in agriculture: greenhouse, mushroom house, farm, seeding room, poultry house; refrigerated storage, Warehouse, cold room Medicinal, HAVC; Building Automation **high humidity environment application**. High Humidity Environment:

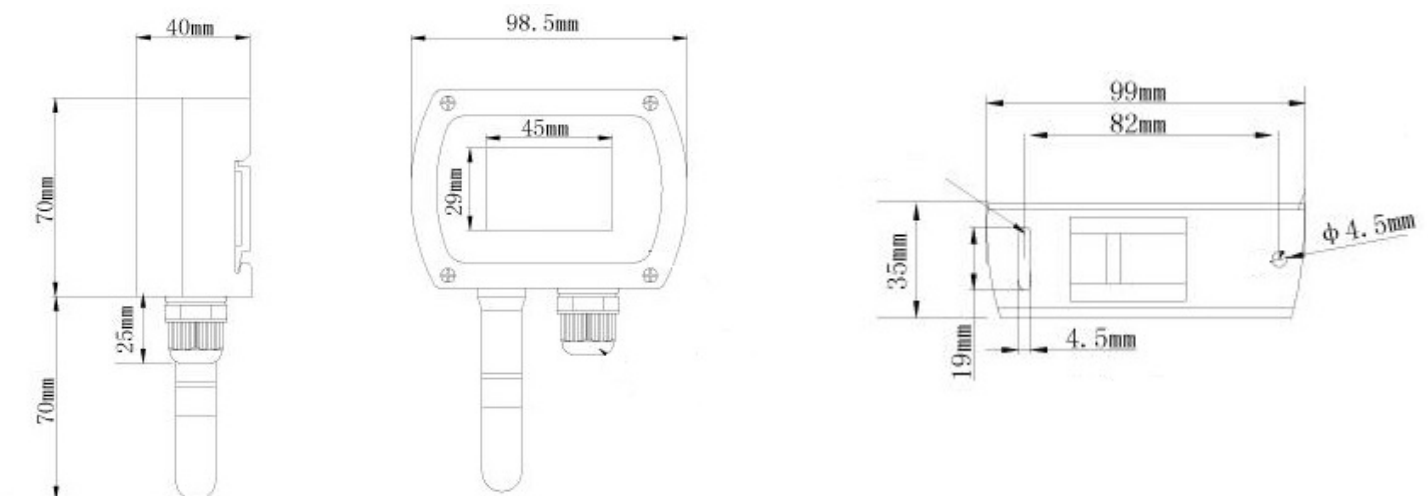
## ■ Feature

- High Accuracy, High Stability; Anti-Interference dealing on PCB
- High sealing technology and excellent three-proof coating protection
- **Range: T: -20 to 80°C, 0-50°C, -40 to 60°C; H: 0-100%**
- **Temperature range can be set by inner DIN switch**
- **With offset function by built-in keys**
- **Output: 4-20mA,0-5VDC,0-10VDC, RS485 output**
- Probe can be with dust-proof, water-proof type, optional
- **Accuracy: T:±0.3°C, H:±3%; Resolution: T:0.01, H:0.1%RH**
- Protection: Electrical housing: IIP65; Probe: IP54
- Wide power supply: 12-36VDC; 15-36VDC (4-20mA only)

## ● Size (mm)



**SR300S Wall Type Temperature Humidity Transmitter With Indicator**



## Specification

<b>Accuracy</b>	T: $\pm 0.3^{\circ}\text{C}$ (Full range in average);	<b>Power Supply</b>	15-36VDC (4-20mA Output);
	RH: 3%RH (including non-linear, repeatability, hysteresis)		12-36VDC (0-5VDC, 0-10VDC; RS485 Output)
<b>Long Stability</b>	T: $< 0.04^{\circ}\text{C}/\text{year}$ ;	<b>Power consumption</b>	60mA
	RH: $< 0.05\% \text{RH}/\text{year}$	<b>Housing Material</b>	ABS
<b>Range</b>	T: $-40+125^{\circ}\text{C}$ swith adjustable	<b>Probe Type</b>	Dust-proof (standard); water-proof
	RH: 0-99.9%	<b>Installation</b>	Wall Type
<b>Resolution</b>	T: $0.1^{\circ}\text{C}$ , RH: $0.1\% \text{RH}$	<b>Case Size</b>	80mmx65mmx38mm (LXD)
	T: 6t(63%): min=5s, max=30s;	<b>Probe Size</b>	42mmx 16mm (LXD)
<b>Response time</b>	H (90% static air): 8second	<b>Terminals Size</b>	1x2.5 mm <sup>2</sup> or 2x1.5 mm <sup>2</sup>
	<b>Load resistor</b>	$< 500\text{ohm}$	<b>Entry connector</b>
<b>Output</b>	4-20ma, 0-5VDC, 1-5VDC; RS485 output	<b>Protection</b>	Electrical Case: IP65; Probe: IP54
<b>RS485 Protocol</b>	Standard MODBUS-RTU protocol	<b>Working Ambient</b>	T: $-40$ to $80^{\circ}\text{C}$ , H: 0-99.9%, no dew
<b>Baud rate</b>	9600; customized	<b>Storage Temperature</b>	$10-50^{\circ}\text{C}$ ( $0-125^{\circ}\text{C}$ at peak)

## Diagram

SR300S: 4-20ma(standard), 0-5vdc,1-5vdc output Terminals

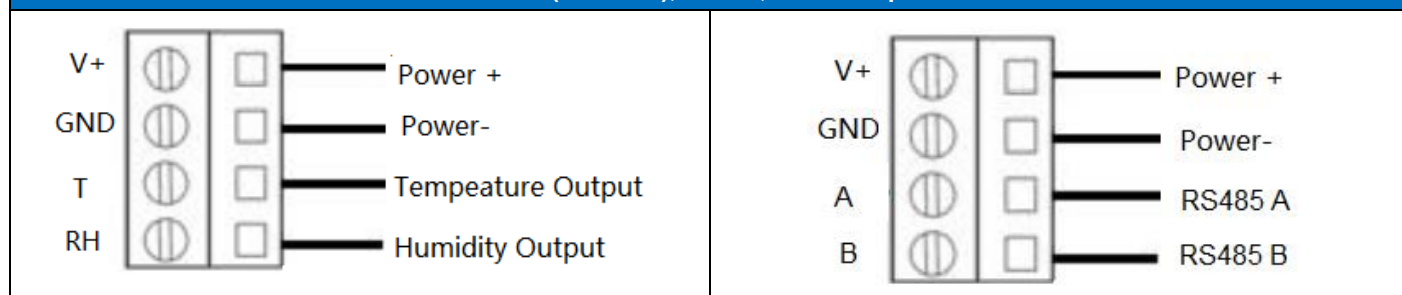
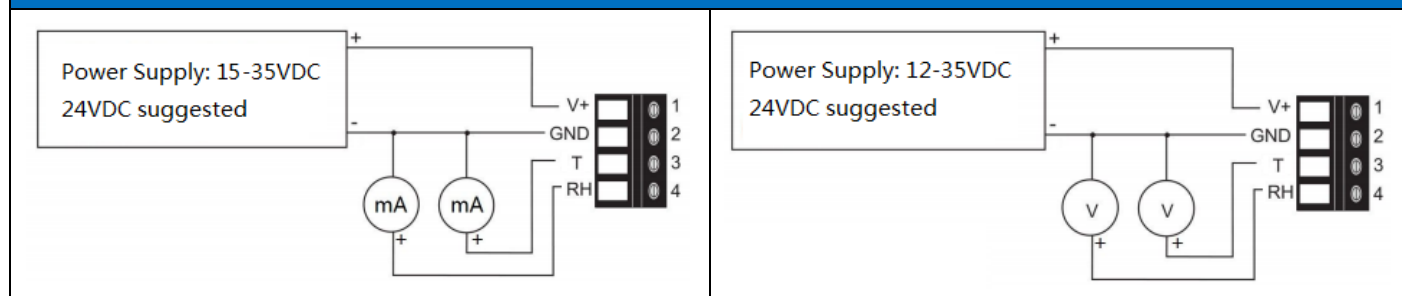
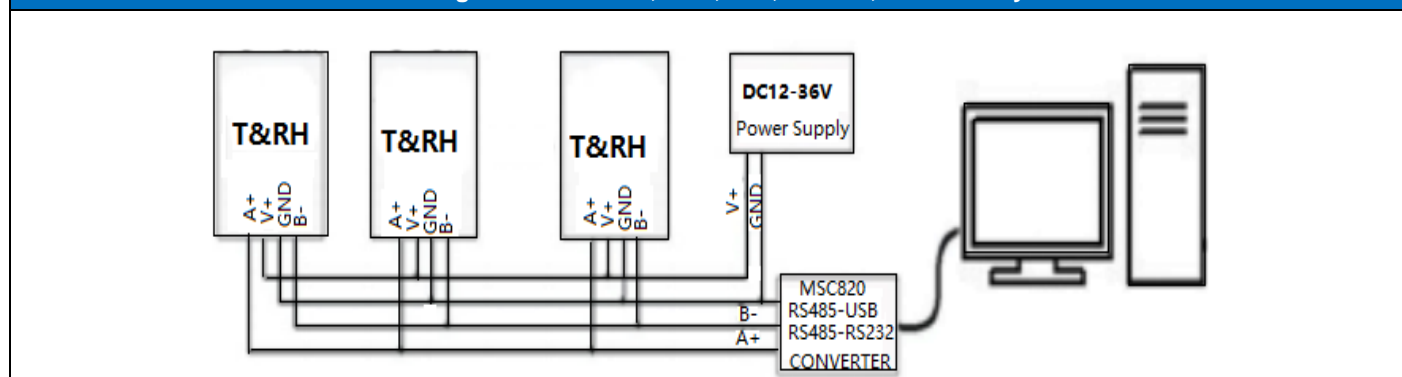


Diagram: 4-20mA,0-5VDC, 0-10VDC Terminals



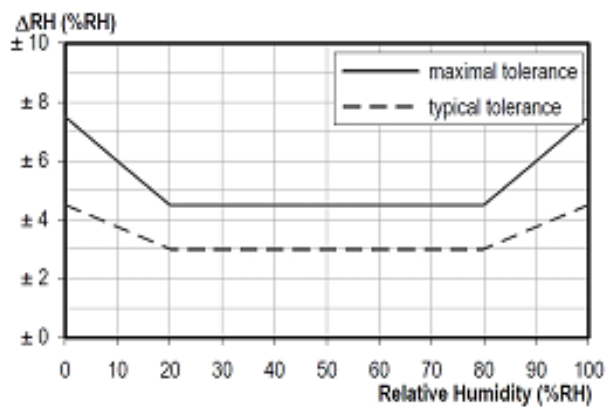
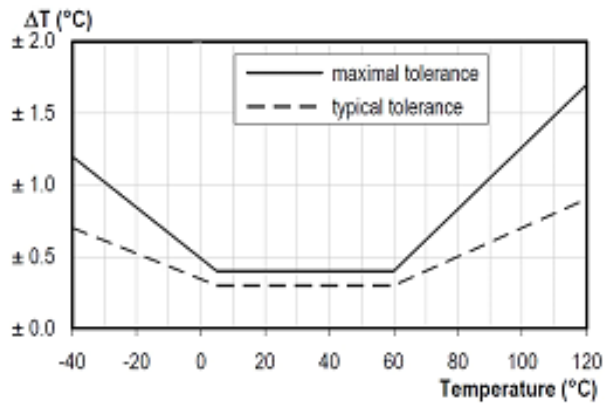
SR300S: RS485 Communication, Standard MODBUS-RTU Protocol

Configurable with PLC, DCS, HMI, SCADA, OPC flexibly

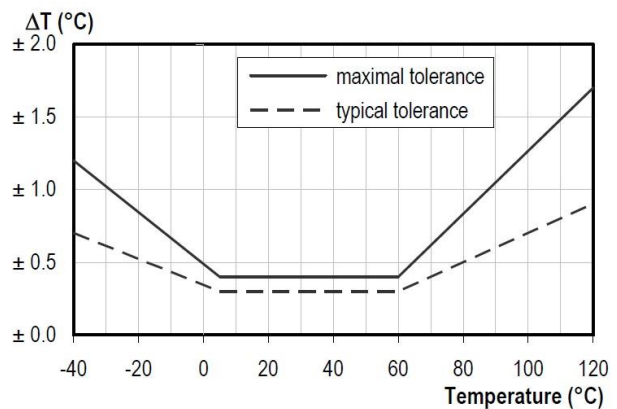
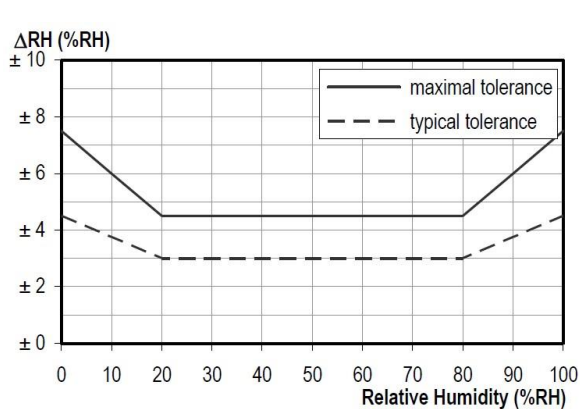


## Accuracy

Analog Output: 4-20mA, 0-5VDC, 0-10VDC



RS485 Output



## Order Code

SR300S temperature and humidity sensor				
Order Code: SR300S-NAN				Description
<b>SR300S</b>	-X	X	X	<b>SR300S Wall Type temperature and humidity sensor</b>
<b>Indicator</b>	-N			None
	-D			Yes, with indicator
<b>Output Type</b>		A		4-20mA (standard)
		A2		4-20mA (2 wire, special), when temperature measured, humidity should be measured
		V		0-5VDC
		V2		0-10VDC
		R		RS485 output
<b>Probe Type</b>		N		Standard type, dust-proof
		W		Water-proof (special)