

Wall Mount RS485 MODBUS RTU T+RH Transmitter

STH 300D

-20 to 60 °C & 0 to 100 %RH

RS485 Interface, MODBUS RTU

Settable Device ID, Baud Rate & Parity

LCD Display with Temperature, %RH & Device ID Indication

Process Precision Instruments

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Maharashtra, India

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Applications

- HVAC Monitoring in Office Buildings, Hotels & Malls
- Server Room & Data Center Environmental Management
- Cleanroom & Laboratory Climate Monitoring
- Pharmaceutical Warehouses & Cold Storage Areas
- Greenhouses, Indoor Farming & Controlled Growing Zones
- Food & Beverage Storage Facilities
- Smart Building Automation Systems
- Museums, Libraries & Archives for Humidity Control



Salient Features

- Compact, Wall Mount 'Temperature + Humidity' Transmitter
- 12-Bit Resolution for Humidity Measurements
- 14-Bit Resolution for Temperature Measurements
- RS485 MODBUS RTU Communication Protocol
- Dual RJ45 Connectors for Easy Daisy-Chain Wiring
- Configurable MODBUS Parameters (Device ID, Baud Rate, Parity)
- LCD Display for Real-Time Temperature & Humidity Readings
- Device ID Indication on LCD Display for Easy Unit Identification
- Magnetic Back Plate for Quick and Tool-Free Installation
- Low Power Consumption and High Communication Reliability
- ABS Housing with IP30 Protection
- Wide Supply Voltage Range: 9 to 26 VDC

General Information

Product Type Wall Mount RS485 MODBUS RTU
T+RH Transmitter

Ordering Code

STH 300D-☐

LCD Display

0 : No Display

1 : LCD Graphic Display

Example : STH 300D-1

Wall Mount MODBUS RTU T+RH Transmitter with LCD Display

Quantity 1 Unit

Accessories None

Wall Mount RS485 MODBUS RTU T+RH Transmitter

General Specifications

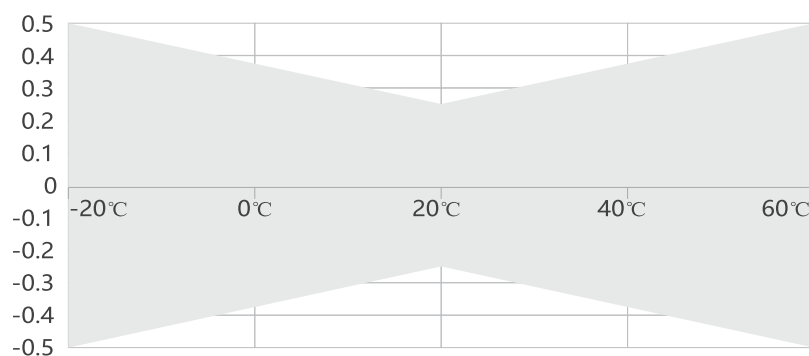
Housing Material	ABS
Power Supply	9 to 26 VDC
Working Environment	-20 to 60°C, 5 to 95%RH (Non-condensing)
Protection Class	IP30

%RH (Relative Humidity)

Sensor Type	Digital
Range	0 to 100%RH
Measurement Resolution	12 Bit
Accuracy	± 3% @ 20 °C & 60%RH
Output	RS485 / MODBUS

Temperature

Sensor Type	Digital
Range	-20 to 60 °C
Measurement Resolution	14 Bit
Accuracy	± 0.3°C @ 20°C (Refer Temperature Accuracy Curve)



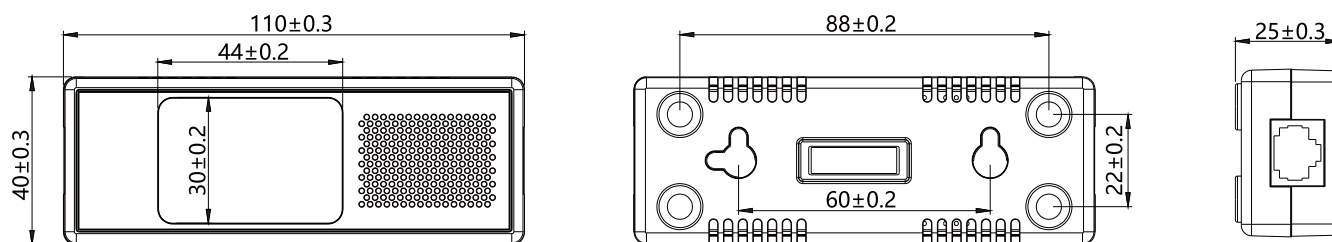
Output	RS485 / MODBUS
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Serial Communication

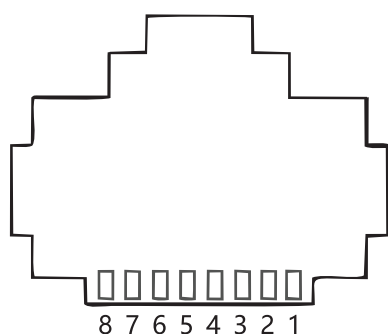
Port	RS485, 2-wire, Half Duplex, Start-Stop Synchronized
Protocol	MODBUS RTU (Slave)
Slave ID	Settable : 1 to 255 (Default : 1)
Baud Rate	Settable : 9600, 19200, 38400, 115200 bps (Default : 9600)
Parity	Settable : None, Even, Odd (Default : None)
Data Format	1 Start Bit + 8 Data Bits + 1 Stop Bit
Temperature & %RH Values	16 Bit Signed Integer or 32 Bit Float Value (0.1°C & 0.1%RH Resolution)

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Dimensions (mm)

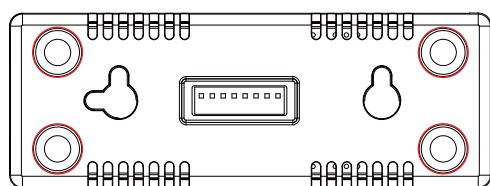


Wiring Instructions



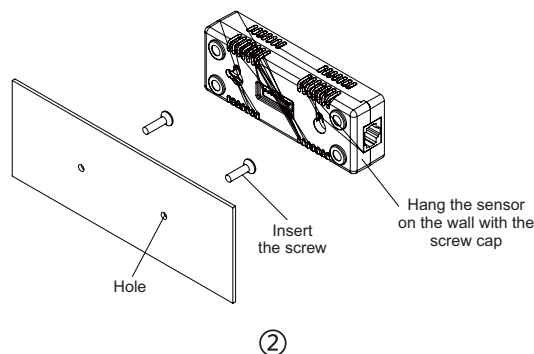
- | | |
|-------------------|-------------------|
| 1. RS485 (A+) | 5. RS485 (B-) |
| 2. RS485 (B-) | 6. V- : Power (-) |
| 3. V+ : Power (+) | 7. NC |
| 4. RS485 (A+) | 8. V- : Power (-) |

Installation



①

1. The magnetic suction design at the back of the device can be directly attached to the cabinet.



②

2. Wall mounted installation

Process Precision Instruments (An ISO 9001 : 2008 Company)

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