

Wall / Duct / Remote Mount T+RH Transmitters

STH 8 Series

4-20 mA / 0-10 V / RS485 MODBUS Output
20 to 35 VDC Operated
Optional LCD Display

Process Precision Instruments

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Wall Mount
STH 8WC / STH 8WV / STH 8WD



Duct Mount
STH 8DC / STH 8DV / STH 8DD



Remote Mount
STH 8RC / STH 8RV / STH 8RD



Salient Features

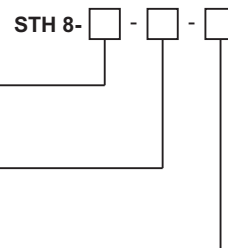
- High Precision, Long Term Stability & Good Anti-Interference
- Compact Size, Simple Installation
- Wall / Duct / Remote Installation Versions
- Current (4-20 mA), Voltage (0-10 VDC) & RS485 (MODBUS) Output Versions
- Applications : Data Centers, HVAC, BMS, Storage, Vegetable Green Houses, Farms, etc.
- Reverse Polarity Protected Current Outputs
- Over-Voltage & Reverse Polarity Protected Power Supply
- Wide Supply Voltage Range : 20 to 35 VDC
- High Protection Grade of IP65

General Information

Product Type Probe Type T+RH Transmitter

Ordering Code

Mounting W : Wall, D : Duct, R : Remote
Output C : 4 to 20 mA V : 0 to 10 V D : RS485 MODBUS
Display 0 : None, 1 : LCD



Example : STH 8-W-C-0

Mounting : Wall, Output : 4 to 20 mA, Display : None

Quantity 1 Unit

Accessories Mounting Flange (Oval) with Screw Sets for Duct Mounting

General Specifications

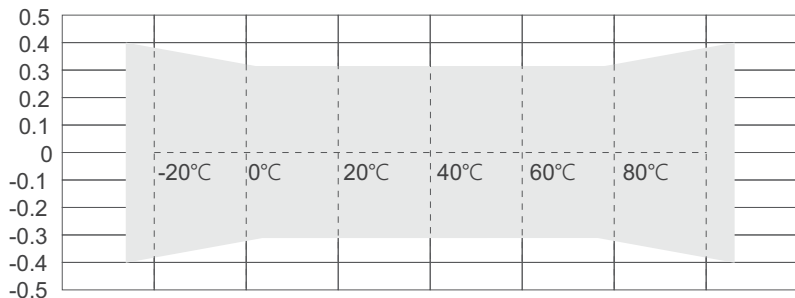
Housing Material	ABS Shell, Polycarbonate (PC) Probe & Polymer Filter
Power Supply	Voltage & RS485 Output : 15 to 35 VDC, Current Output : 19.5 to 35 VDC
Working Environment	-20 to +60°C, 5 to 95%RH (Non-condensing)
Protection Class	IP65

%RH (Relative Humidity)

Sensor Type	Digital
Range	0 to 100%RH
Accuracy	± 3% @ 20°C & 20 to 80%RH
Output	STH 8xC : 4 to 20 mA (Max Load : 500Ω) STH 8xV : 0 to 10 VDC (Min Load : 2KΩ) STH 8xD : RS485 MODBUS (x = W for Wall, D for Duct, R for Remote Mounting)

Wall / Duct / Remote Mount T+RH Transmitters

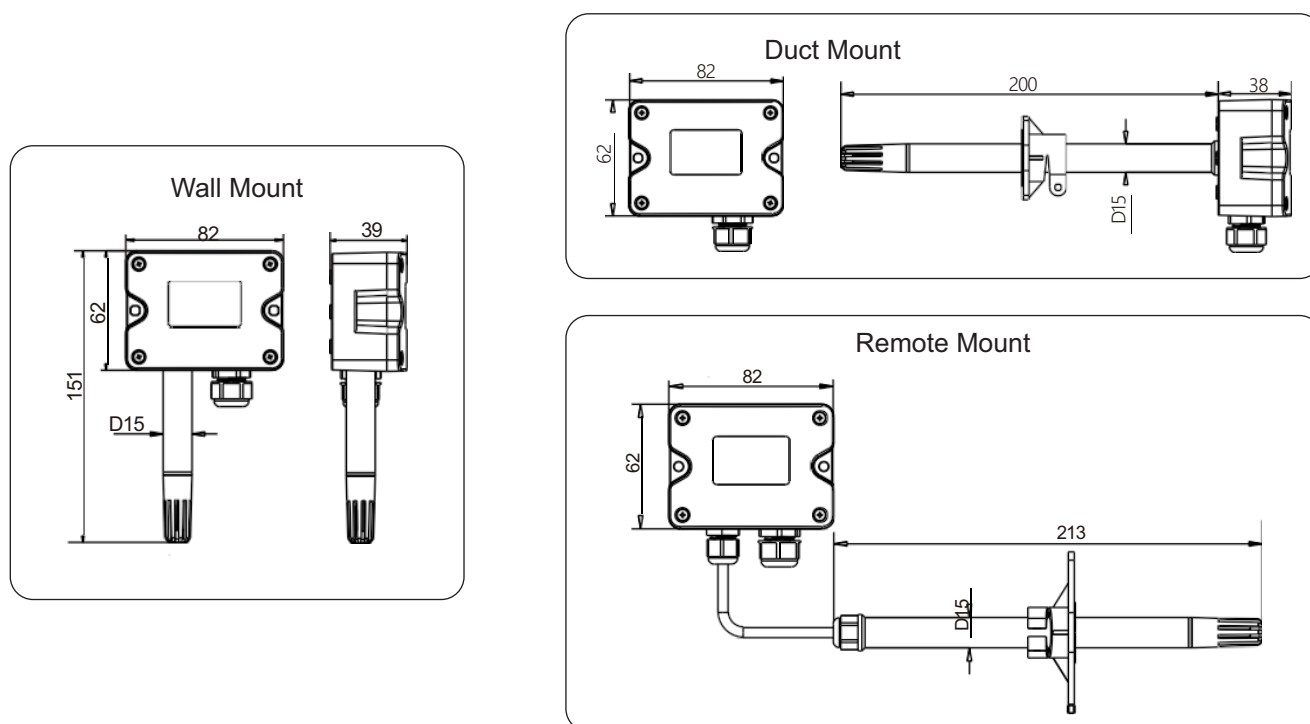
Temperature

Sensor Type	Digital
Range	Settable : 0 to 50 °C, 0 to 60 °C, 0 to 80 °C, 0 to 100 °C, -20 to 60 °C (Default), -20 to 80 °C, -40 to 60 °C Note : The working temperature range is -20 to 60 °C. The range setting is for mA / V signal output proportionality only.
Accuracy	± 0.3°C @ (0 to 60 °C) (Refer Temperature Accuracy Curve)
	 The graph shows the temperature accuracy curve. The Y-axis represents accuracy in degrees Celsius, ranging from -0.5 to 0.5. The X-axis represents temperature in degrees Celsius, ranging from -20 to 80. The accuracy is ±0.3°C across the entire range.
Output	STH 8xC : 4 to 20 mA (Max Load : 500Ω) STH 8xV : 0 to 10 VDC (Min Load : 2KΩ) STH 8xD : RS485 MODBUS (x = W for Wall, D for Duct, R for Remote Mounting)

Serial Communication

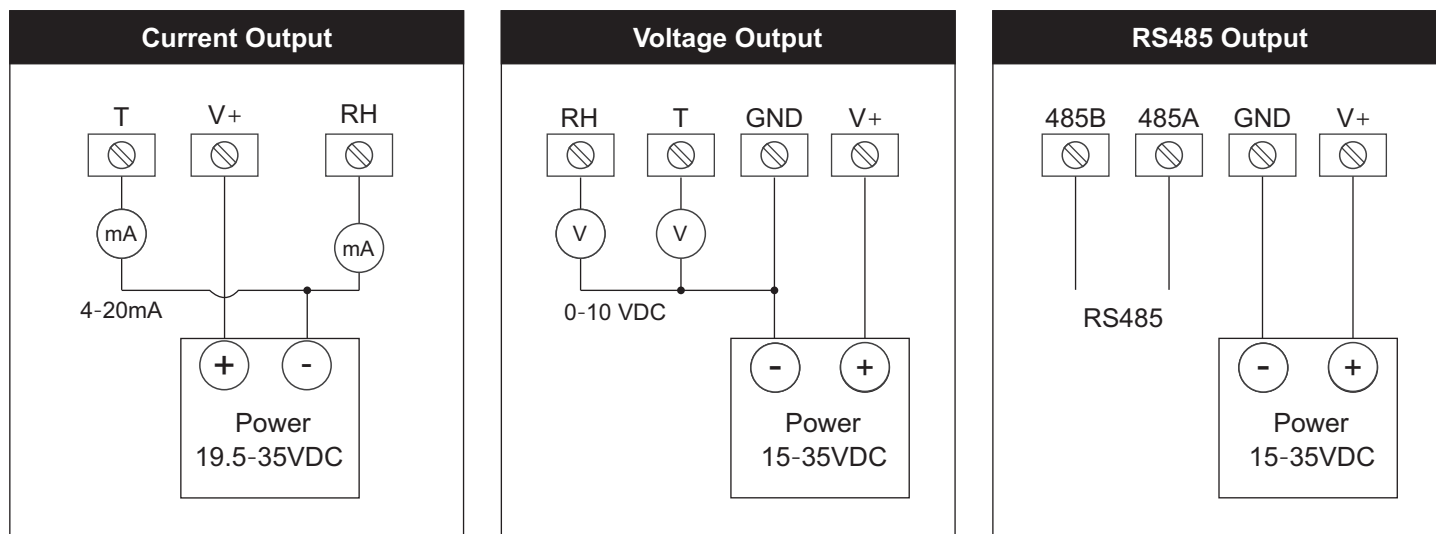
Port	RS485, 2-wire, Half Duplex, Start-Stop Synchronized
Protocol	MODBUS RTU (Slave)
Slave ID	Settable : 1 to 63 (Default : 1) via DIP Switches
Baud Rate	Settable : 9600, 19200, 38400 bps (Default : 9600) via DIP Switches
Parity	None
Data Format	1 Start Bit + 8 Data Bits + 1 Stop Bit
Temperature & %RH Values	16 Bit Signed Integer or 32 Bit Float Value (0.1°C & 0.1%RH Resolution)

Dimensions (mm)



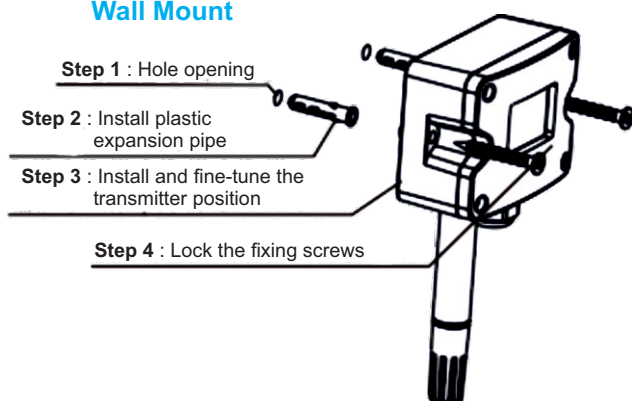
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Wiring Instructions

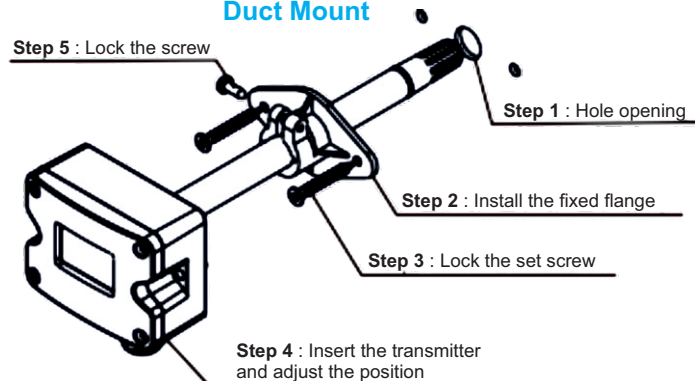


Installation

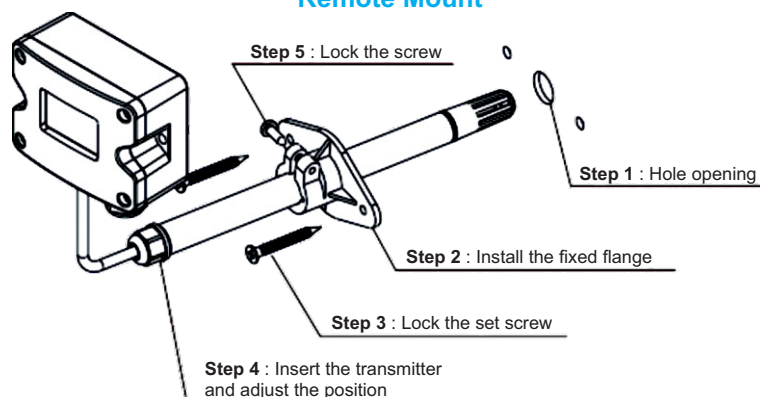
Wall Mount



Duct Mount



Remote Mount



Process Precision Instruments (An ISO 9001 : 2008 Company)

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