



TRH01

TEMPERATURE & HUMIDITY SENSOR



Introducing the TRH01 Transmitter Series – an innovative solution for precise temperature and relative humidity measurements in diverse environments. Engineered to combat the effects of high humidity, condensation, or fog, this series is well-suited for applications in Buildings, Food & Pharma Storages, Cold Rooms, Greenhouses, Poultry Farms, and more.

The TRH01 series provides 4-20mA/0-10 VDC output for temperature and relative humidity, with optional RS485 Modbus communication. Operating on 24VDC power, it offers a $\pm 2\%$ RH accuracy.

Available in both Wall Mount and Duct Mount designs, the Duct Mount version provides flexibility with integral or separate probes, along with a 2m cable option. The series also features an optional two-line LED display for enhanced usability.

SPECIFICATIONS

Supply Voltage	24VDC
Communication Port	RS485, Modbus (Optional)
Operating Temperature	-25 to 50°C
Enclosure	ABS/Polycarbonate, IP65
Probe	Anodized Aluminum

Temperature	
Temp. Measurement Range Wall Mount	0 to 50°C
Temp. Measurement Range Duct mount - Integral Probe	0 to 70°C
Temp. Measurement Range Duct mount - Separate Probe	0 to 100°C
Temp. Accuracy	± 3.3°C
Temp. Resolution	0.01°C
Temp. Repeatability	0.04 °C typical
Temp. Response time	2 sec (t 63%)
Temp. Long term drift	<0.03 °C per year
Temp. Output	4-20mA @500 ohms, 0-10VDC, PT100, PT1000, NTC10K, NTC20K

Humidity	
RH Sensing Technology	Polymer based capacitive sensor
RH Measurement Range	0% to 100%
RH Accuracy	± 2% @ 25°C for 10 to 90% RH
RH Resolution	0.0001
RH Repeatability	± 0.1% typical
RH Response time	4 sec (t 63%)
RH Long term drift	<0.2 % RH per year
RH Output	4-20mA @500 ohms, 0-10VDC

ORDERING CODE

T+RH Transmitter Series	TRH01		
Mounting Type	XX	WN	Wall Mount
		D1	Duct Integral Probe, Length 180mm
		S1	Duct Separate Probe, Length 180mm, 2 Mtr Cable
Transmitter1 / Output1	XX	TA	Temp. / 4-20mA
		TV	Temp./ 0-10VDC *Note1
		T1	Pt100
		T2	Pt1000
		T3	NTC10K
		T4	NTC20K
Transmitter2/ Output2	XX	RA	RH / 4-20mA
		RV	RH / 0-10 VDC *Note1
Comm. Port	X	N	None
		1	RS485, Modbus *Note2
Display	XX	NN	Without display
		D1	Dual LED Display

*Note 1 : If Output 1 is 0-10VDC, Output 2 shall also be selected 0-10VDC

*Note 2 : If Comm. Port is selected RS485 Modbus, Output 1 & 2 shall be NN



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