






T+RH TRANSMITTER EXPLOSION PROOF **SERIES TRH01EX**




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T+RH TRANSMITTER EXPLOSION PROOF SERIES TRH01EX

Futuristic Explosion Proof Humidity and Temperature Transmitter series TRH01EX is designed for use in hazardous areas. It is suitable for Zone classification Zone 1 & 2 and Gas Group IIA, IIB & IIC, T6

TRH01EX series provides 4-20mA/ 0-10 VDC for Temp & RH, RS485 Modbus communication is optional. It works on 24VDC/AC power. It offers ±2% RH accuracy.

TRH01EX series also provides optional calculated Dew Point and Output 4-20mA / 0-10VDC for the same.

TRH01EX series transmitters is provided with Integral or Separate Probe with 2 mtr cable. It is designed to mount on a Wall or a Duct.

SPECIFICATIONS

PARAMETER

Relative 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	: 0.01%
RH Repeatability	: ±0.1% typical
RH Response time	: 4 Secs (t 63%)
RH Long term drift	: <0.2 % RH Per year
RH Output	: 4-20mA @500 ohms

Temperature

Temp. Range	: 0 to + 70°C
Temp. Accuracy	: ± 0.2°C
Temp. Resolution	: 0.01 °C
Temp. Repeatability	: 0.04 °C typical
Temp. Response time	: 2 Secs (t 63%)
Temp. Long term drift	: <0.03°C Per year
Temp. Output	: 4-20mA @500 ohms
Supply Voltage	: 24VDC / 24VAC ±10 %
Communication Port	: RS485, Modbus (Optional)
Operating Temperature	: -25° to 50°C

Enclosure

Material	: Di Cast Aluminum Alloy LM6
Type of Explosion Protection	: EEx-d, IEC60079-1:2007
Zone Classification	: Suitable for Zone 1 & 2
Gas Group	: Suitable for Gas group IIA, IIB & IIC, T6
Ingress Protection	: IP66, IEC60529-1:2001
Paint	: Epoxy Polyester powder coated
Cable Entry	: ½" NPT double compression gland

Probe

Material	: Stainless Steel / Anodised Aluminum
Dust Screen	: SS304



ORDERING CODE

T+RH Transmitter Series	TRH01EX			
Mounting Type	XX	WN	Wall Mount, Integral Probe	
		S1	Separate Probe, Length 180mm with 2 Mtr Cable	
Transmitter1 / Output1	XX	TA	Temp. / 4-20mA	
		TV	Temp. / 0-10 VDC	
Transmitter2 / Output2	XX	RA	RH / 4-20mA	
		RV	RH / 0-10VDC	
		DA	Dew Point / 4-20mA	
Comm. Port	X	N	DV	Dew Point / 0-10VDC
				None
			1	RS485, Modbus
Display	XX	NN	Without Display	
		D1	Dual LED Display	