

sTRH.01

Temperature & Relative Humidity Transmitter

Reliable measurement for your EMS

The sTRH.01 is a combined temperature and relative humidity transmitter suitable for accurate and reliable measurement needs of dedicated sectors.

The measurement data is available on the **RS-485 Modbus** output which eliminates the measurement problems that may arise from transferring analog signals on the field, provides advantages in installation and commissioning, reduces the cost of wiring.



strh.01

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Transmitter

Transmitter

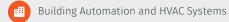
Strh.01 has an optional on-site alarm generation function which avoids logging delays in case of an event occurs. This function can be enabled / disabled remotely.

ikon life

The measurement range, filter constant alarm parameters, zero-offset and measurement unit can be set and adjusted on site.

In addition to the probe solutions suitable for **duct mounting** in different sizes, the **probe can be extended by cable** and provides ease of installation to the user.

Areas of Use



Pharmaceutical Industry

Food & Beverage Industry

Precision Agriculture

Laboratories / Test Chambers

Modbus RS-485 Communication

Technical Specifications



ocherat					
Measuring Values	Humidity & Temperature				
Output Type	RS485 Modbus RTU				
Relative Humidity Measurement					
Measuring Range	0100 %rH				
Accuracy	± 1.8 %rH @ 10-90% typ. 25 °C				
Non-Linearity from Response Curve	± 0.15 %rH @ 10-90% typ.				
Hysteresis	± 1 %rH max.				
Resolution	0.1 %rH				
Response Time τ10/90	< 15s at still air				
LongTerm Drift	< ± 0.25 %rH / yr max. depends on environment conditions				
Temperature Measurement					
Measuring Range	-20+80 °C				
Accuracy	± 0.2 °C @ -10+80 °C typ.				
Resolution	0.1 °C				
LongTerm Drift	< 0.04 °C / yr				
Mechanical					
Enclosure	ABS plastic				
Probe	Stainless Steel 304				
Probe Connection	Fixed to the box / with Cable				
Filter Type	PC body, PTFE membrane				
Cable Gland	PG7 suitable for cable dia 3 to 6.5 mm				
Protection Class Enclosure	IP65				
Protection Class Probe	IP40				
Enclosure Dimensions	82 x 80 x 56mm				
Installation Type	Duct / Wall / DIN Rail				
Dimensions	Ф: 15mm L: 30 / 150 / 200 / 300 / 400 mm				
Outputs					
Туре	Digital , isolated 2w RS485				
Protocol	Modbus RTU				
Baud Rate	9600 156000 bps				
Max Nodes on BUS	120				
Parameter Setup	Via RS485 (Serial number, Location, Device name, Slave ID, Filter constants, Alarm limits, Calibration parameters etc.)				
Isolation	RS485 Output isolated from Supply Voltage & Sensor				
Electrical					
Supply Voltage	18 35 VDC				
Current Consumption	60 mA max @ 24 VDC				
Electrical Protection	Reverse polarity				
Environmental					
Measured Media	Air				
Working Temperature for Enclosure	-20 +60 °C				
Working Conditions for Probe	0 95 %rH non Condense & -20+80 °C				
Storage Temperature	-20 +60 °C				
Order Options					
	sTRH.01.[alarm].[install].[probe conn].[probe lenght]				
[alarm]	[0] - Without alarm option				
[install]	[01] - Duct [02] - Wall [03] - DIN Rail				
[probe conn]	[01] - Fixed to the box [02] - with Cable				
[probe lenght]	[01] - 30 mm				