

# sT.02

## Temperature Transmitter

Reliable temperature measurement for your EMS

The **sT.02** is a temperature 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**.

**sT.02** 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.



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 is extended by cable and it provides **ease of installation** to the user.

### Areas of Use



Building Automation and HVAC systems



Pharmaceutical industry



Food and beverage industry



Precision agriculture



Laboratories / Test chambers



Humidifiers / Dehumidifiers

## General

Measuring Values	Temperature
Output Type	RS485 Modbus RTU

## Temperature Measurement

Measuring Range	-20...+90 °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	Φ: 15mm L: 30 / 150 / 200 / 300 / 400mm

## Outputs

Type	Digital , isolated 2w RS485
Protocol	Modbus RTU
Slave ID	1-128
Baud Rate	9600 ... 156000 bps
Max Nodes on BUS	128
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	40 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...+90 °C
Storage Temperature	-20 ... +60 °C
CE Certification	CE conformity , electromagnetic compatibility according to EN 61326 , EMC directive 2004/108/EC

## Order options

	sT.02.[alarm].[install].[probe conn].[probe lenght]		
[alarm]	[0] - Without alarm	[1] - With alarm	
[install]	[01] - Duct	[02] - Wall	[03] - DIN Rail
[probe connection]	[01] - Fixed to the box	[02] - with Cable	
[probe lenght]	[01] - 30 mm	[02] - 150 mm	[03] - 200 mm
	[04] - 300 mm	[05] - 400 mm	[06] - Custom specified