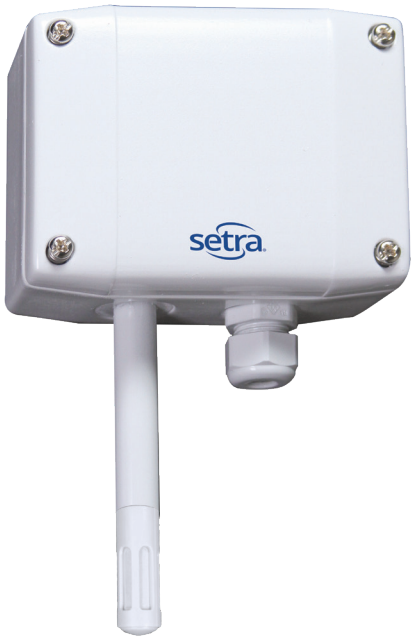

Model SRH200

Humidity and Temperature Transmitter

Features

- Excellent long-term stability
- BACnet MS/TP and Modbus RTU compatible
- Sensor coating protects sensing element and enables long term stability
- Wall and duct mount options available

Applications

- HVAC
- Cleanrooms
- Operating rooms
- Patient isolation rooms
- Pharmaceutical labs
- Industrial manufacturing
- Compounding pharmacies

Specially designed for HVAC, the SRH200 sensor by Setra is a cost effective, highly accurate and reliable solution for measuring relative air humidity and temperature.

Proprietary sensing element

The SRH200 employs a capacitive sensing element which exhibits excellent long term stability and resistance against pollutants. The SRH200 provides a measurement accuracy of ±2.5 % RH and is available for wall or duct-mounting with current, voltage, BACnet MS/TP or Modbus RTU output.

Hassle-free configuration

Optional configuration accessories (SETRAPCA1 and SETRAPCA2), and user-friendly software makes it possible to readily set RS485 interface parameters, customize output scaling, and perform one or two-point adjustment of RH and temperature on any SRH200 unit.

Product design

The SRH200's form factor and thoughtful design allow for a simple and efficient installation. The quarter-turn bayonet screws and the easily accessible electrical connections enable a hassle-free setup, greatly reducing installation cost. The IP65/NEMA 4 faceplate also provides incredible protection against contaminates and condensation, prolonging the products life and ensuring reliable operation.

Ordering information

General

Power Supply	
for 4-20 mA, 2-wire:	10 V + R_L x 20 mA < U_V < 30 VDC
for 0-10 V, RS485:	15-30 VDC or 24 VAC ±20%
Current consumption	
Analog:	w/ DC power supply typ. 5 mA w/ AC power supply typ. 13 mA
Digital:	w/ DC power supply typ. 15 mA w/ AC power supply typ. 25 mA
Connection	Screw terminals, max. wire 16 AWG
Housing material	Polycarbonate, UL94V-0 approved
Protection class	IP65/ NEMA 4
Gland fitting	PG9
Electromagnetic compatibility	EN61326-1 EN61326-2-3
Temperature ranges	Operating: -40 to 140°F (-40 to 60°C) Storage: -40 to 140°F (-20 to 60°C)

Measured values

Working range (RH)	0-100% RH
Accuracy including non-linearity, hysteresis, and repeatability at -40 to 140°F (-40 to 60°C)	±2.5% RH
Temperature dependency	typ. ±0.03% RH/°C
T-accuracy at 20°C	±0.3 °C

Outputs

Analog output	
0-10 V:	-1 mA < I_L < 1 mA
4-20 mA (2-wire):	R_L < 500 Ω
Digital output	RS485 (BACnet MS/TP or Modbus RTU), max. 32 SRH200 units on one bus

Specifications subject to change without notice.

Ordering information

Example part number: SRH20011D1NNMFNAAA;
Model SRH200 humidity transmitter, 4-20 mA output, duct mount, probe length fixed, membrane filter, non-metric units, 38400 baud rate, Analog unit:

S	R	H	2	0	0				1	N	N	M	F				
[1]						[2]		[3]	[4]	[5]		[6]		[7]	[8]	[9]	[10]

[1] Model

SRH200

[2] Output

11	4 to 20 mA
2C	0 to 10 V
A2	BACnet
M3	Modbus

[3] Type

W	Wall mount
D	Duct mount

[4] Number of sensor ports

1	One

[5] Probe length

NN	Fixed length

[6] Filter type

MF	Membrane filter

[7] Units

M	Metric
N	Non-metric

[8] Baud rate

A	Analog unit
1	9600
2	19200
3	38400
4[1]	51600
5[1]	76800
6[1]	115200

[9] Parity

A	Analog unit
B	BACnet unit
1	Odd
2	Even
N	No parity

[10] Stop bits

A	Analog unit
B	BACnet unit
1	1 stop bit
2	2 stop bits

[1] Only available with output option "A2".
[2] Configuration codes [6] through [10] can be reconfigured after purchase

Accessories

Filters

SRHMF	Membrane filter
SRHSS	SST sintered filter
SRHPG	Plastic grid filter
SRHPF	PTFE filter
SRHMG	Metal grid filter
SRHHP	H_2O_2 filter

Probe configuration adapter

SETRAPCA1	Configuration transmitter, RS232/USB connections
SETRAPCA2	Configuration cable, SRH200 analog
SETRAPCA3	Configuration cable, SRH200 digital

Flanges

SRHPMFB	Plastic duct mounting flange, 12mm, black
SRHPMFG	Plastic duct mounting flange, grey
SRHWMC	Wall mounting clip, 12mm probe diameter

Recalibration

SRH200SCAL	SRH200 calibration to ISO standard

SSP-SRH200 Rev. D 3/2019