



Model SRH200

Humidity and Temperature Transmitter

Features

- Excellent long-term stability
- BACnet MS/TP compatible
- Sensor coating protects sensing element and enables long term stability

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 $\pm 2.5\%$ RH and is available for wall mounting with voltage or BACnet MS/TP.

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 contaminants and condensation, prolonging the products life and ensuring reliable operation.



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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

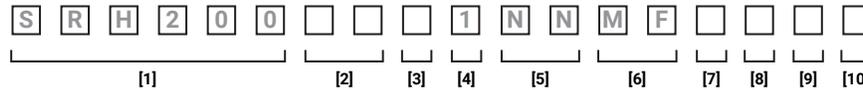
Analog output	
0-10 V:	-1 mA < I _L < 1 mA
4-20 mA (2-wire):	R _L < 500 Ω
Digital output	RS485 (BACnet MS/TP or Modbus RTU), max. 32 SRH200 units on one bus

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:



[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]
Model	Output	Type	Number of sensor ports	Probe length	Filter type	Units	Baud rate	Parity	Stop bits
SRH200	2C 0 to 10 V A2 BACnet	W Wall mount	1 One	NN Fixed length	MF Membrane filter	M Metric N Non-metric	A Analog unit 1 9600 2 19200 3 38400 4 ¹ 51600 5 ¹ 76800 6 ¹ 115200	A Analog unit B BACnet unit	A Analog unit B BACnet unit

¹ Only available with output option "A2".

² Configuration codes [6] through [10] can be reconfigured after purchase

Accessories

Probe configuration adapter

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

Flanges

SRHWMC	Wall mounting clip, 12mm probe diameter
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Recalibration

SRH200SCAL	SRH200 calibration to ISO standard
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