



Model SRH400

Humidity and Temperature Transmitter

Features

- Interchangeable probes
- Outstanding accuracy and long term stability
- Easy loop calibration
- Wide temperature working range

Applications

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

The innovative, modular SRH400 humidity (RH) and temperature (T) transmitter consists of a base unit and pluggable, interchangeable probes. The base unit can accommodate one combined RH and T probe or two separate probes — one for RH and one for T. The stainless steel remote probes can be plugged onto the base unit either directly or with extension cables up to 10 m (32.8 ft) long. An optional kit facilitates the mounting of the probes in a duct. The SRH400 basic unit is available with a metal enclosure suitable for wall mount (SRHDMK).

Easy configuration & setup

The measured values are available on two analog voltage or current (2 wire, 4-20 mA) outputs. One or two point adjustment for RH and T of the transmitter can be easily performed with push buttons by removing SRH400 faceplate. Alternatively, the SRH400 probes can be adjusted individually with a Part Configuration Adapter (SETRAPCA4).

Fit for harsh environments

The SRH400 is fully gasketed with a powder-coated finish and die cast construction for aggressive environments. All external hardware is stainless steel.



Ordering information

General

Supply voltage (Class III)	
for 0-10 V output:	15-30 VDC or 15-29 VAC
for 4-20 mA output:	10 -35 VDC
Current consumption	
DC supply:	typ. 10 mA
AC supply:	typ. 20 mA
Load resistor (4-20 mA output)	R _L < [(U _V -10 V)/0.02 Α][Ω]
Connection	Screw terminals, max. wire 16 AWG
Housing material	Cast alloy (AISi ₉ Cu ₃)
Protection class	IP65/ NEMA 4
Gland fitting	PG9 cable, Ø 4.5-100 mm (0.18-0.39")
Sensor protection	SST mesh
Electromagnetic compatibility	EN61326-1, EN61326-2-3, Industrial environment
Temperature ranges	Operating: -40 to 140°F (-40 to 60°C) Storage: -40 to 140°F (-40 to 60°C)

Specifications subject to change without notice.

Outputs

0-1 V:	-0.5 mA < I _L < 0.5 mA
0-10 V:	-1 mA < I _L < 1 mA
4-20 mA (2-wire):	R _L < 500 Ω

T dependence of analog outputs Max. 0.2 mV/°C; Resp. 1 μ A/°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); 0-90% RH	±2% RH
Accuracy including non-linearity, hysteresis, and repeatability at: -40 to 140°F (-40 to 60°C); 90-100% RH	±3% RH
Temperature accuracy at 70°F	±0.18° F

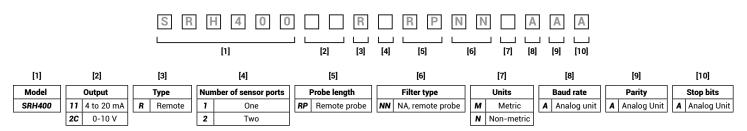
RH/T

Temp

Ordering information

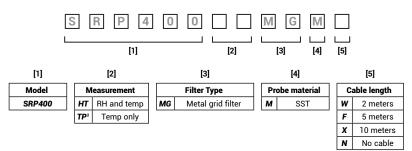
Example part number (base unit): SRH40011R2RPNNNAAA;

Model SRH400 humidity transmitter, 4-20 mA output, 2 sensor ports, filter type NA, non-metric units, analog unit:



Ordering note: Probes are not included with base units and must be ordered separately

Remote SRH400 probe:



¹ Only available if two (2) sensor ports are selected on base unit.



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

Flanges	
SRHSMF	Stainless steel mounting flange
SRHPMFB	Plastic duct mounting flange, black
SRHPMFG	Plastic duct mounting flange, grey
SRHWMC	Plastic wall mounting clip
SRHDMK	Stainless duct mounting kit

Probe configuration adapter

SETRAPCA1	Configuration transmitter, RS232/USB connections
SETRAPCA4	Configuration cable

Probe extension cables		
SRC400W	2 meter cable	
SRC400F	5 meter cable	
SRC400X	10 meter cable	

Humidity/temperature probe

SRP400HT relative humidity and temperature probe, stainless steel

Temperature probes

SRP400TP temperature probe, stainless steel



_.



Setra Systems, Inc. 159 Swanson Road Boxborough, MA 01719

800.257.3872 www.setra.com © Setra Systems, Inc. All rights reserved.

The Setra Systems name and logo are trademarks of Setra Systems, Inc.