

# SS401 series sanitary pressure transmitters

- CE conformity
- Field adjustable output range
- Stainless steel 316L wetted parts
- 1.5" and 2" Tri-Clamp® connections
- All stainless steel structure, silicon oil filled
- Standard DIN43650A pressure connections
- Vented gauge, sealed gauge or absolute is optional
- Pressure ranges available from 0...0.35bar to 0...70 bar
- Output signals: 4-20mA or 0-10V, 0-5V voltage signal output
- Integrated with cooling fins, standard medium temperature up to 125°C



## Descriptions

SS401 series sanitary pressure transmitter designed with piezoresistive sensor technology, works following the piezoresistive effect, feature 0.5% or even 0.25% accuracy, rugged isolated construction with 316L stainless steel wetted parts, available with industry standard 1.5" or 2" sanitary/clamp fittings for long reliable service in pressure or level "clean in place" (CIP) and "sterilize in place" (SIP) measurement or maintenance procedures.

SS401 series features an integral cooling extension between the Tri-Clamp® connection and transmitter body, increases the sensor media temperature up to 125°C. The 316L stainless steel diaphragm ensures a crevice free seal between the process connection and the pressure measuring diaphragm. Typically applications in food processing, beverage or bio/pharmaceutical applications as well as industrial applications that require a rugged, high accuracy pressure transmitter.

## Technical data

### Performance (EN 60770)

Accuracy @25°C (incl. non-linearity, hysteresis and repeatability)	±0.5% F.S.
Response time	< 4ms
Overload pressure	2.0 × F.S.
Pressure range	-1~0bar; 0~0.35bar...70bar
Pressure type	vented gauge, sealed gauge, absolute
Long term stability	≤0.2%F.S./Year
Temperature coefficient	±0.03%F.S./°C

### Electrical specifications

	4-20mA (Current output)	0-10V, 0-5V (Not Ratio-metric)	Ratio-metric (10-90% of Vs.)
Supply voltage [UB]	12-36V	12-36V	5 V ± 10%
Load [RL] (load connected to 0 V)	$RL \leq (UB-12V)/0.02 A$	---	---
Polarity protected	yes	yes	yes
Short-circuit protected	yes	yes	yes

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## Environmental conditions

Medium temperature range	-40°C → +125°C
Ambient temperature range (depending on electrical connection)	-20°C → +80°C
Compensated temperature range	-10°C → +70°C
EMC - Emission	EN 61000-6-3
EMC - Immunity	EN 61000-6-1
Insulation resistance	>100 MΩ at 250 V

## Mechanical characteristics

Materials	Wetted parts	Stainless steel 316L
	Enclosure	Stainless steel 304
	Electrical connections	PA66
Weight (depending on pressure connection and electrical connection)	225-500g	
Pressure connection	D1=1.5"(50.5mm), D1=2"(64mm)	
Electrical connection	DIN43650A(Hirschmann), Direct cable, M12*1, LED Display	

## Dimensions

DIN43650A(Hirschmann) connection	Direct cable connection

## Electrical connections

	Hirschmann(DIN43650A) connection	Direct cable connection
4-20mA Current output signal (2 wire)	Pin 1: + supply    Pin 2: + output Pin 3: Not used    Earth: Not connected	Red: + supply Green/Yellow: + output
0-10V, 0-5V, 0.5-4.5V Voltage output signal (3 wire)	Pin 1: + supply    Pin 2: - supply Pin 3: + output    Earth: Not connected	Red: + supply Green: - supply Yellow: + output
IP protection ( fulfilled together with mating connector)	IP 65	IP 65

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## Ordering information

EXAMPLE: [SS401 H 01 A 01 B 01 A](#)

1	Pressure range(bar) A(-1~0) B(-0.35~0) C(0~0.35) D(0~1.0) E( 0~2.5) F(0~4.0) G(0~6.0) H(0~10) I(0~16) J(0~25) K(0~40) L(Other pressure range or unit is on request)	H
2	Pressure type 01 Gauge 02 Absolute	01
3	Electrical connection A Hirschmann(DIN43650A) B Direct cable C M12*1 D LED Display	A
4	Pressure connection 01 1.5" (50.5mm) 02 2" (64mm) 03 Other pressure connection is on request	01
5	Voltage supply A 5VDC B 12~36VDC	B
6	Output signal 01 4~20mA 02 0.5~4.5V 03 0~5V 04 0~10V 05 1-5V 06 1-10V 07 Other output signal is on request	01
7	Cable length A None B 1m C 2m D 3m E 4m F 5m G 6m H Other length is on request	A

### Optional

Medium temperature 125-300°C	Accuracy 0.25%	Housing filled with silicon gel
Supply voltage 9~36V	Enhanced anti-interference and surge protection	

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\*Specifications subject to change without notice, the latest date sheet please contact: [sales@sendo-sensor.com](mailto:sales@sendo-sensor.com)