

SS401 series sanitary pressure transmitters

- CE conformity
- 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 150°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 150°C. The clamp fitting design 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
Pressure range	0...0.35bar to 70bar -1...0bar, -1...1bar(negative pressure)
Overload pressure	2.0 × F.S.
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 (enhanced digital)	0-10V (enhanced digital)	0-5V/0.5-4.5V (analog)	0.5-4.5V (analog)
Supply voltage	9-30Vdc	11-30Vdc	10-36Vdc	5Vdc
Polarity protected	yes	yes	yes	yes
Short-circuit protected	yes	yes	yes	yes
Zero and span adjustment	No	No	yes	yes
Surge protection	yes	yes	No	No

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Environmental conditions

Medium temperature range	-40°C → +150°C (more see optional 1 in page 3)
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	1.5"(50.5mm), 2"(64mm)	
Electrical connection	DIN43650A(Hirschmann), Direct cable, M12*1, LED Display	

Dimensions

DIN43650A connection	DIN43650C connection	BP3 connection	Direct cable	M12*1
200degC(1.5" pressure connection)		housing		housing
150degC(1.5" pressure connection)		150degC(2" pressure connection)		

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Electrical connections

	DIN43650 connection	Cable connection
4-20mA Current output signal (2 wire)	Pin 1: + supply Pin 2: + output Pin 3: Not used Earth: Not connected	Red: + supply Black: + output
0-10V, 0-5V, 0.5-4.5V Voltage output signal (3 wire)	Pin 1: + supply Pin 2: GND Pin 3: + output Earth: Not connected	Red: + supply Black: GND Blue: + output
IP protection (fulfilled together with mating connector)	IP 65	IP 65

Ordering information

EXAMPLE: **SS401 H 01 A 01 A 01**

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 E DIN43650C	A
4	Pressure connection 01 1.5" (50.5mm) 02 2" (64mm) 03 Other pressure connection is on request	01
5	Signal & supply A 4-20mA(9-30Vdc) B 0-10V(11-30Vdc) C 0-5V(10-36Vdc) D 0.5-4.5V(10-36Vdc) E 0.5-4.5V(5Vdc) F 4-20mA(12-36Vdc) [Ⓛ] G 0-10V(15-36Vdc) [Ⓛ]	A
6	Cable length 01 None 02 1m 03 2m 04 3m 05 4m 06 5m 07 Other length is on request	01

[Ⓛ]: Analog PCB, zero and span adjustable, NO surge protection

Optional

1	Medium temperature 200°C(5pcs of cooling fins)
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*Specifications subject to change without notice, the latest date sheet please contact: sales@sendo-sensor.com