Features

- CE conformity
- 6 × F.S. high overload
- Stainless steel 316L wetted parts
- All stainless steel integrated structure
- Piezoresistive pressure sensor, oil filled
- Output signals: 4-20mA and voltage output
- Enhanced anti-interference and surge protection
- Pressure from 0.1bar up to 60 bar in gauge or absolute
- Resistant to cavitation, liquid hammer and pressure peaks











Descriptions

SS305 series isolated industrial pressure transmitter is a portfolio of highly configurable pressure sensors that use piezoresistive sensing technology, meets the high overload protection demand and is suitable for almost all types of severe industrial applications. It is an improved pressure transmitter based on SS302 series, all stainless steel integrated structure, a special designed pressure transducer is laser welded with the housing, no elastic component is used in side, no O-ring, no leaking problems.

SS305 series is fully calibrated and compensated for offset, sensitivity, temperature effects and non-linearity, is a precise pressure measurement solution that optimizes system performance at a competitive cost, numerous standard or custom connectors, ports, pressure ranges and types, and output signal options. With the special designed transducer and signal conditioning circuit, the transmitter offer more than 4 f.s. high overload, this feature makes the sensor is perfect for the hydraulic applications especially for the water treatment market.

Technical data

Performance (EN 60770)

Accuracy @ 25 °C	± 1.0% F.S. (incl. non-linearity, hysteresis and repeatability)	
Non-linearity BFSL (conformity)	± 0.3% F.S.	
Hysteresis and repeatability	± 0.1% F.S.	
Response time	< 4 ms	
Pressure range	Minimum range: 0.1 bar	
	Maximum range: 60 bar	
	See more details in page 5 (part number chart)	
Overload pressure	6.0 × 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

Output signal	4-20mA	0-10V	0-5V/0.5-4.5V	0.5-4.5V	10%-90%
Supply voltage	9-30Vdc	12-30Vdc	9-30Vdc	5Vdc	5V ratio-metric
Polarity protected	yes	yes	yes	yes	yes
Short-circuit protected	yes	yes	yes	yes	yes
Zero and span adjustment	No	No	No	No	No
Surge protection	yes	yes	yes	yes	yes

Environmental conditions

Medium temp range	-40 → +100 °C	
Ambient temp range	-20 \rightarrow +80 $^{\circ}$ C (depending on electrical connection)	
Compensated temp range	0 → +70 °C	
EMC - Emission	EN 61000-6-3	
EMC - Immunity	EN 61000-6-1	
Insulation resistance	> 100 MΩ at 250 V	

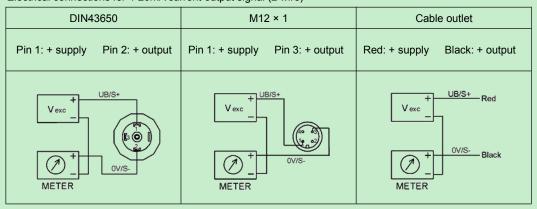
Mechanical characteristics

Materials	Diaphragm Stainless steel 31		nless steel 316L (typical)	More options see page 5
	Housing	Stainless steel 304 (typical)		Stainless steel 316L (optional)
	Pressure connection Stainless steel 316L		Stainless steel 316L	
	Electrical conne	Electrical connection Depending on the conn		ection type
	O-ring	Not used, all stainless		steel welding structure
Pressure connection	1/4" BSP, 1/4" NPT, 9/16-18 UNF, M14 x 1.5 More options see pa			More options see page 5
Electrical connection	DIN43650A, DIN43650C, Cable outlet, M12 × 1, LED Display			
Weight	150-300g (depending on pressure connection and electrical connection)			
Sealing rating	IP 65 (fulfilled together with mating connector)			

Electrical connector type

DIN43650A	DIN43650C	3-pin Packard	M12 × 1
2 1	2		4 0 0 3

Electrical connections for 4-20mA current output signal (2 wire)

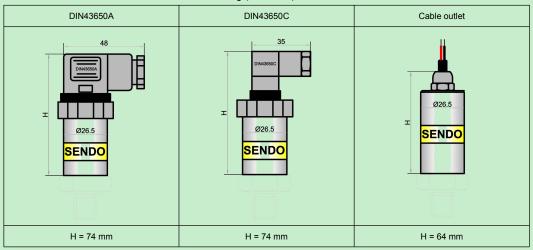


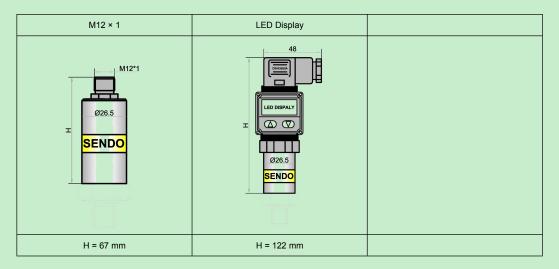
Electrical connections for 0-10V, 0-5V, 0.5-4.5V voltage output signal (3 wire)

DIN43650	M12 × 1	Cable outlet
Pin 1: + supply Pin 2: GND	Pin 1: + supply Pin 3: GND	Red: + supply Black: GND
Pin 3: + output	Pin 4: + output	Blue: + output
Vexc + UB S+ GND/S- METER	V exc + UB V exc + GND/S- METER	V exc _ + Blue GND/S- Black

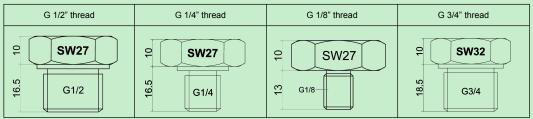
SS305 series piezoresistive pressure transmitters for severe industrial environments

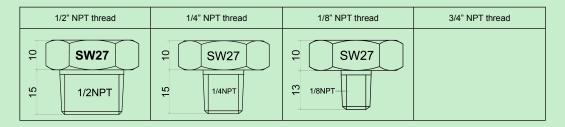
Dimensions for electrical connections and housing (Unit: mm)





Dimensions for pressure connections (Unit: mm)





Part number chart (How to order)

PART NUMBER REQUIRED: \$\$305.PL.01.A.04.A.06 (EXAMPLE)

1	Pressure range(bar)	PL		
	NA(-10) NB(-0.70) NC(-0.50) ND(-0.350) NE(-0.20) NF(-0.10) PA(00.1)			
	PB(00.2) PC(00.35) PD(00.5) PE(00.7) PF(01) PG(01.6) PH(02)			
	PI(02.5) PJ(04) PK(06) PL(010) PM(016) PN(025) PO(040)			
	PP(060) CA(-10.6) CB(-11.5) CC(-13) CD(-15) CE(-19)			
	CF(-115) CG(-124) 1Z(Other pressure range or unit is on request)			
2	Pressure type	01		
	01(Gauge) 02(Absolute)			
3	Electrical connection	Α		
	A(DIN43650A) B(Cable Outlet) C(M12 × 1) D(LED Display) E(DIN43650C) F(Plug type)			
4	Pressure connection	04		
	01(1/4" NPT male) 02(1/2" NPT male) 03(1/8" NPT male) 04(G 1/4" male) 05(G 1/2" male)			
	06(G 1/8" male) 07(PT 1/4" male) 08(PT 1/2" male) 09(PT 1/8" male) 10(9/16-18 UNF male)			
	11(7/16-20 UNF male) 12(1/2-20 UNF male) 13(3/8-24 UNF male) 14(M10 x 1.25 male)			
	15(M14 x 1.5 male) 16(M20 x 1.5 male) 17(1/8" NPT female) 18(1/4" NPT female)			
	19(1/2" NPT female) 20(9/16-18 UNF female) 21(7/16-20 UNF female)			
	4Z(Other pressure connection is on request)			
5	Signal & supply	Α		
	A(4-20mA & 9-30Vdc) B(0-10V & 12-30Vdc) C(0-5V & 9-30Vdc) D(0.5-4.5V & 9-30Vdc)			
	E(0.5-4.5V & 5Vdc) F(0.5-4.5V & 5Vdc ratiometric)			
6	Cable length	06		
	01(1m) 02(2m) 03(3m) 04(4m) 05(5m) 06(None) 6Z(Other length is on request)			

NON- REQUIRED: \$\$305.PL.01.A.04.A.06 - V3C

1	Material of housing	V3C			
	V3C(Stainless steel 316L)				
2	Material of diaphragm	V4E			
	V4D(Titanium) V4E(Tantalum) V4F(Hastelloy-C)				
3	Pulse snubber / Bumper (Anti cavitation, pressure spikes, or pulses)				
	V6H(Assemble into the pressure hole)				

Contact us

Company	Ningbo Sendo Electronic Technology CO., LTD				
Email	sales@sende	sales@sendo-sensor.com			
Email	cain.chen@sendo-sensor.com				
Factory	No 15, Yongxing 2nd Rd, Chengbei Industrial Park, Huizhou District, 245900 China				
Office	Building. 1#1108, Wante business center, Hi-Tech, 315040 China				
Website	http:/www.pre	http://www.sendo-sensor.com			
Skype: sendosensor		WeChat: chenjie4884	WhatsApp: +8613616574884		
Tel: 0086-0574-2772	5960	Fax: 0086-0574-27725970	Phone: 0086-13616574884		



WARNING: DO NOT USE THIS PRODUCT AS SAFETY OR EMERGENCY STOP DEVICE OR IN ANY OTHER APPLICATION WHERE FAILURE OF THE PRODUCT COULD RESULT IN PERSONAL INJURY OR EVEN DEATH.