## **Features**

- High accuracy and reliability
- Stainless steel 316L wetted parts
- 1.0mA, 1.5mA constant current supply
- 5VDC, 10VDC constant voltage supply
- 0-70°C temperature compensation range
- G1/2". G1". M20 various pressure connection
- Isolated construction, able to test various media
- Absolute, vented gauge and sealed gauge pressure
- Piezoresistive silicon based transducer, silicone oil filled inside

## **Descriptions**



SS116 series flush mount pressure transducer is rugged silicon technology based and all-welded flush mounted designed that facilitates accurate measurements of corrosive or higher viscosity media, the transducer offers great flexibility and reliability for a wide range of applications in many industries such as water, food, beverage and pharmaceutical where non-flush port transducer is otherwise prone to clogging or damage with competitive price.

The transducer offers excellent long term performance throughout the complete range of pressures from 0-0.35 to 0-600 bar, pressure is coupled from a SS 316 membrane that deforms with pressure via a transmission fluid (silicone oil), wetted materials are SS #316, compatible to almost all industrial fluids and gases, it can be customized to g 1/2 inch, g 3/4 inch, g 1 inch and other male thread interfaces upon request.

## **Pressure ranges (typical)**

Vented gauge (defining atmospheric pressure as zero) (Unit: bar)

Range	-1.0	-0.7	-0.35	0.35	0.7	1.0
	2.5	4.0	6.0	10	16	25

#### Absolute (defining absolute vacuum as zero) (Unit: bar)

Range	1.0	2.5	4.0	6.0	10	16
	25	40	60	100	160	250
	400	600				

Sealed gauge (defining standard atmospheric pressure as zero) (Unit: bar)

Range	10	16	25	40	60	100
	160	250	400	600		

## **Technical data**

## Performance (EN 60770)

Power supply	1.5 mADC (typical)	5 VDC (optional)	10 VDC (optional)	
Zero output	0 ± 2 mV 1			
Span output	100 ± 20 mV 1	100 ± 20 mV ①		
Accuracy	0.25% F.S. 1			
Overload range	2.0 × F.S. (≤ 250 bar)			
	1.5 × F.S. (> 250 bar), 1.	2 × F.S. (1000bar)		
Compensated temp range	$0 \rightarrow 70 \ ^{\circ}\text{C}$			
Operating temp range	-20 → 100 °C			
Storage temp range	-40 → 125 °C			
Zero thermal error	≤ 0.02% F.S./°C			
Sensitivity thermal error	≤ 0.02% F.S./°C			
Stability	≤ 0.2% F.S./Year			
Input impedance	2.3 → 4 KΩ			
Insulation resistance	> 100 MΩ at 250 V			
Vibration	20g / (20 to 5000 Hz)			
Endurance	> 100 x 10 <sup>6</sup> F.S. cycles			

①: The zero output, span output and accuracy may different if the supply power, measuring range and pressure type is different, please contact us if you need more details.

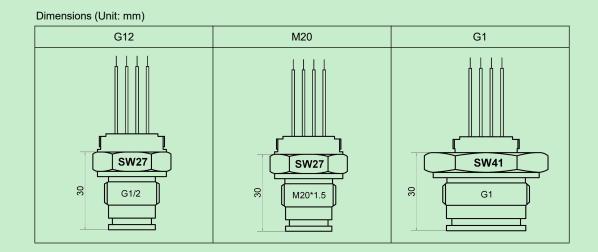
#### Mechanical characteristics

Diaphragm	Stainless steel 316L	More options see Page 3	
Wetted parts	Stainless steel 316L		
Filling liquid	Silicone oil		
O-ring	All stainless steel welding structure, no O-ring sealing used inside		
Electrical connection	10 cm silicone sheathed wires, Kovar pins		
Pressure connection	1/2" BSP, 3/4" BSP, 1" BSP	More options see Page 3	

#### **Electrical connections**

wires 4-Pins / 5-Pins co		onnection mode		
Color	Function		PIN1: Supply +	
Red	Supply +	+	PIN2: Output -	
Black	Supply -		PIN3: Supply -	
White	Output +		PIN4: Supply - 2	
Blue	Output -	PĪN4	PIN5: Output +	

2: PIN4 is not used for 4-Pins connection



## Part number chart (How to order)

## PART NUMBER REQUIRED: SS116.PL.01.A.01.A (EXAMPLE)

1	Pressure range(bar)	PL				
	NA(-10) NB(-0.70) NC(-0.50) ND(-0.350) 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) PQ(0100) PR(0160) PS(0200) PT(0250)					
	PU(0300) PV(0350) PW(0400) PX(0500) PY(0600)					
	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(Vented gauge) 02(Absolute) 03(Sealed gauge)					
3	Electrical connection ③	А				
	A(4-Wires) B(5-Wires) C(4-Pins) D(5-Pins)					
4	Pressure connection	01				
	01(G 1/2" male) 02(G 1" male) 03(G 3/4" male) 04(G 1 1/2" male) 05(M20 x 1.5 male)					
	4Z(Other pressure connection is on request)					
5	Power supply	А				
	A(1.5mADC) B(2mADC) C(5VDC) D(10VDC) 5Z(Other supply is on request)					

(3): 4-Wires and 4-Pins connection: the zero signal is set by SENDO SENSOR before leave factory.

(3): 5-Wires and 5-Pins connection: the zero signal can be set by clients.

### NON- REQUIRED: SS116.PL.01.A.01.A - V4E (EXAMPLE)

1	Material of diaphragm			V4E
	V4D(Titanium) V4I	E(Tantalum)	V4F(Hastelloy-C)	

## **Contact us**

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