

Industrial Diffused Silicon Pressure Transmitters

Description

XDB311 series of pressure transmitters utilize imported high-precision and high-stability diffused silicon sensor with SS316L flush type isolation diaphragm. The transmitters are specifically designed for measuring viscous media, ensuring accurate and reliable readings without any blockages during the measurement process.

Features

- ◆ High accuracy to 0.5%
- ◆ Affordable price & economical solutions
- ◆ Anti-blocking and hygienic flush type design
- ◆ Strong anti-interference & good long-term stability
- ◆ Excellent corrosion resistance and reliability
- ◆ Provide OEM, flexible customization

Typical applications

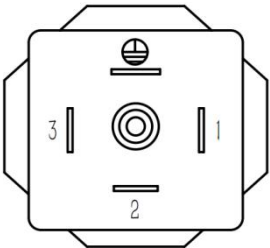
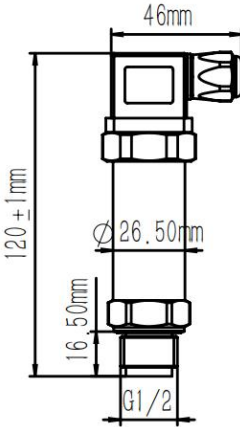
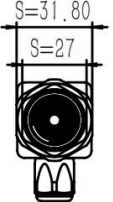
- ◆ Suitable for chemical coating, paint, mud, asphalt, crude oil and other viscous media pressure measurement and control
- ◆ Especially suitable for food, medical equipment and other hygienic fields pressure measurement

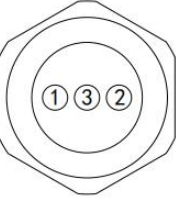
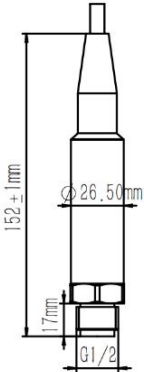
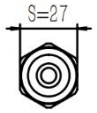


Parameters

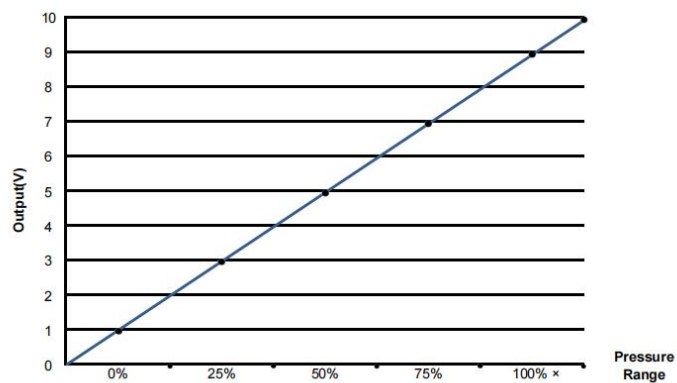
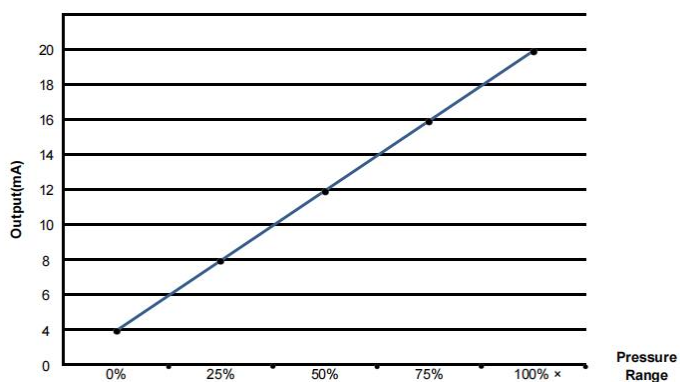
Pressure range	-1~0~400 bar (optional)	Accuracy	±0.5%FS / ±1.0%FS
Input voltage	DC 9~36(24)V, 5V, 3.3V	Long-term stability	≤±0.2% FS/year
Output signal	4-20mA / 0-10V / others	Response time	≤3ms
Thread	G1/2	Overload pressure	150% FS
Electrical connector	Hirschmann DIN43650A / Others	Burst pressure	300% FS
Insulation resistance	>100 MΩ at 500V	Cycle life	500,000 times
Operating temperature	-40 ~ 85 °C	Housing material	304 stainless steel
Compensation temperature	-20 ~ 80 °C	Diaphragm material	316L stainless steel
Operating current	≤3mA	Protection class	IP65
Temperature drift (zero&sensitivity)	≤±0.03%FS/ °C	Weight	≈0.25kg

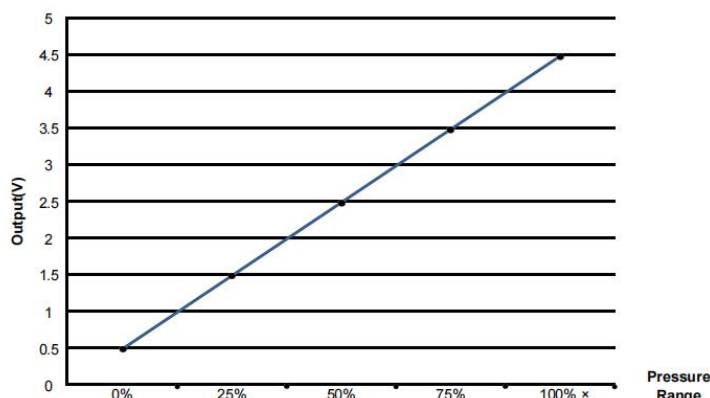
Dimensions(mm) & electrical connection

Hirschmann DIN43650A		XDB311-G3-W6	
	4-20mA: Red: Supply+① Black: Output+②		
	0-10V: Red: Supply+① Black: GND② White: Output+③		

Gland direct cable		XDB311-G3-W1	
	4-20mA: Red: Supply+① Black: Output+②		

Output Curve





How to order

E.g. **XDB311- 0.6M - 01 - 2 - A - G3 - W6 - b - 03 - Oil**

1	Pressure range	0.6M
	M(Mpa) B(Bar) P(Psi) X(Others on request)	
2	Pressure type	01
	01(Gauge) 02(Absolute)	
3	Supply voltage	2
	0(5VDC) 1(12VDC) 2(9~36(24)VDC) 3(3.3VDC) X(Others on request)	
4	Output signal	A
	A(4-20mA) B(0-5V) C(0.5-4.5V) D(0-10V) E(0.4-2.4V) F(1-5V) G(I ² C) X(Others on request)	
5	Pressure connection	G3
	G3(G1/2) X(Others on request)	
6	Electrical connection	W6
	W6(Hirschmann DIN43650A) X(Others on request)	
7	Accuracy	b
	b(0.5% FS) c(1.0% FS) X(Others on request)	
8	Paired cable	03
	01(0.3m) 02(0.5m) 03(1m) X(Others on request)	
9	Pressure medium	Oil
	X(Please note)	

Notes:

1) Please connect the pressure transmitter to the opposite connection for different electric connector.

If the pressure transmitters come with cable, please refer to the right color.

2) If you have other requirements, please contact us and make notes in the order.

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