

Industrial Pressure Transmitters

Description

XDB312 series of hard flat diaphragm pressure transmitter utilize stainless steel isolation diaphragm and all welded structure. The sensor flat diaphragm structure design is specially used for various rough viscous media measurement and the transmitters feature strong corrosion resistance, thus they are suitable for the circumstances with strict hygiene requirements.

Features

- ◆ High accuracy to 0.5%
- ◆ Specially used for rough viscous media
- ◆ Anti-blocking, hygienic and wear-resistant
- ◆ Strong anti-interference, good long-term stability
- ◆ Excellent corrosion resistance and reliability
- ◆ Provide OEM, flexible customization

Typical applications

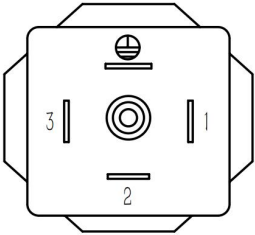
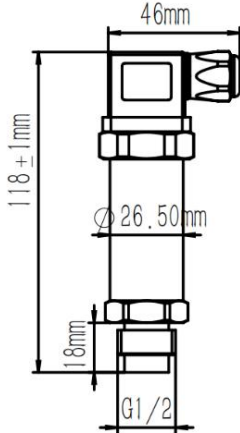
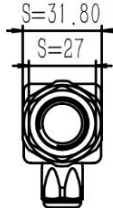
- ◆ Mainly used in food, medical and other industries with sanitary requirements
- ◆ Specially used for medium such as mud, glue, concrete, hard particles, etc.



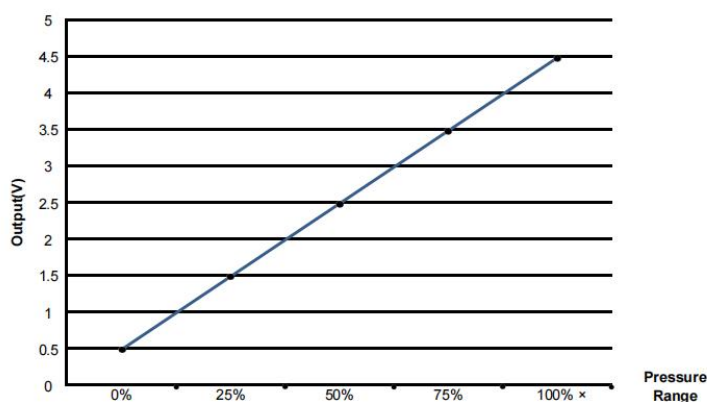
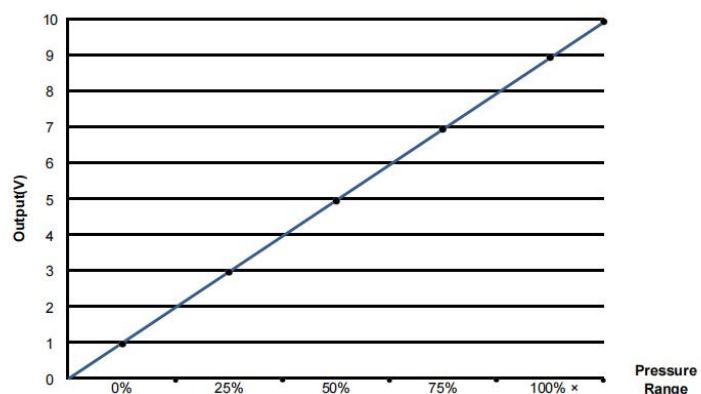
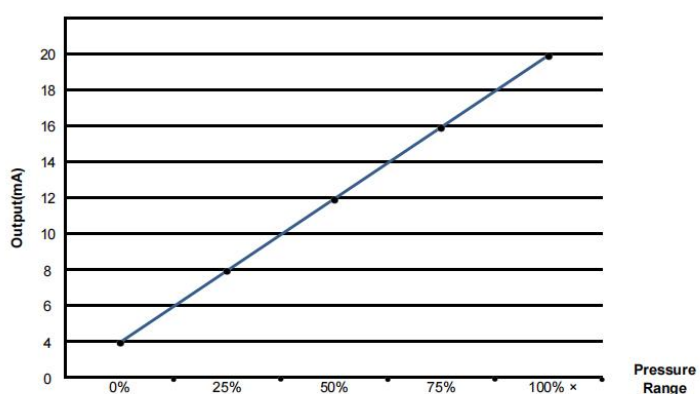
Parameters

Pressure range	5~1200 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	Burst pressure	300% FS
Insulation resistance	>100 MΩ at 500V	Cycle life	500,000 times
Operating temperature	-20 ~ 120 °C	Housing material	304 stainless steel
Compensation temperature	0 ~ 80 °C	Diaphragm material	316L stainless Steel
Operating current	≤3mA	Protection class	IP65
Temperature drift (zero&sensitivity)	≤±0.03%FS/ °C	Weight	≈0.3kg

Dimensions(mm) & electrical connection

Hirschmann DIN43650A		XDB312-G3-W6	
	4-20mA: Red: Supply+① Black: Output+②		
	0-10V: Red: Supply+① Black: GND② White: Output+③		

Output Curve



How to order

E.g. **XDB312 - 6B - 01 - 2 - A - G3 - W6 - b - 03 - Oil**

1	Pressure range	6B
	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) 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.