

Industrial Pressure Transmitters

Description

XDB305 series of pressure transmitters utilize international advanced piezoresistive sensor technology, and offer the flexibility of selecting different sensor cores to meet specific application demands. Encased in a robust all-stainless steel package and with multiple signal output options, they exhibit exceptional long-term stability and are compatible with a wide range of media and applications, so they are widely used in various industries and fields.

Features

- ◆ All sturdy stainless steel structure
- ◆ Small and compact size
- ◆ Complete surge voltage protection function
- ◆ Affordable price & economical solutions
- ◆ Flexible OEM customization service

Typical applications

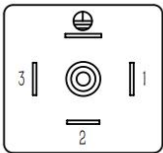
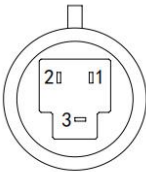
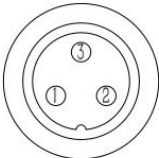
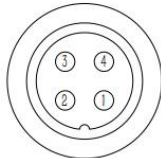
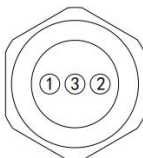
- ◆ Intelligent IoT constant pressure water supply
- ◆ Engineering machinery, industrial process control and monitoring
- ◆ Energy and water treatment systems
- ◆ Steel, light industry, environmental protection
- ◆ Medical, agricultural machinery and testing equipment
- ◆ Flow measurement equipment
- ◆ Hydraulic and pneumatic control systems
- ◆ Air-conditioning unit and refrigeration equipment
- ◆ Water pump and air compressor pressure monitoring



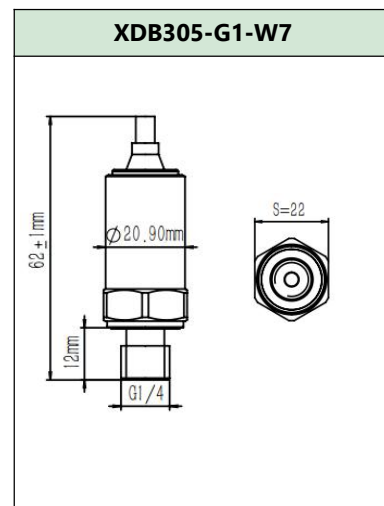
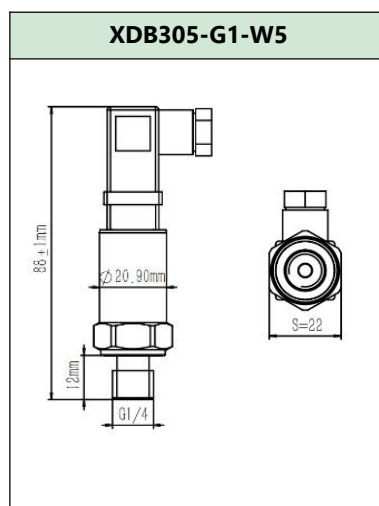
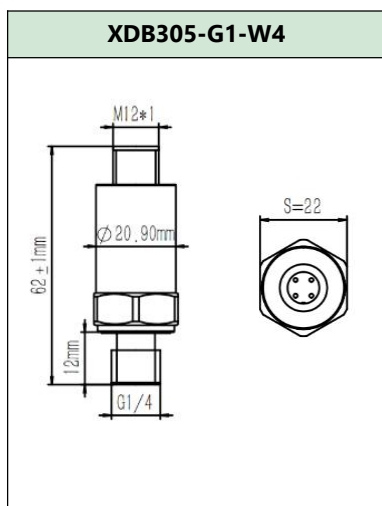
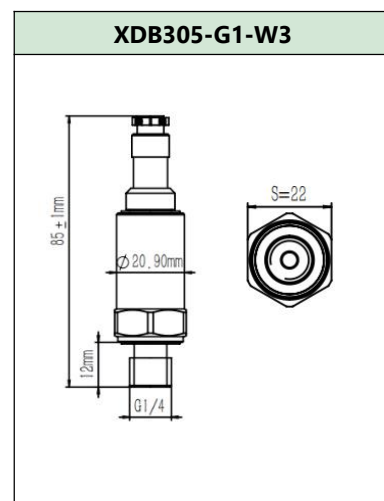
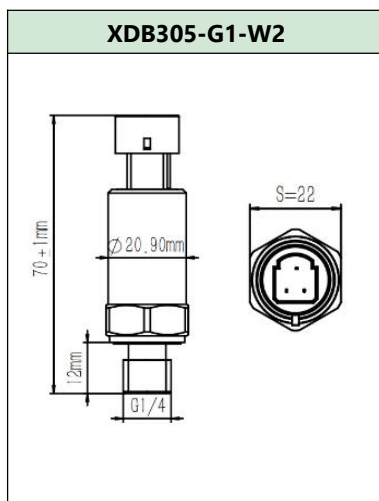
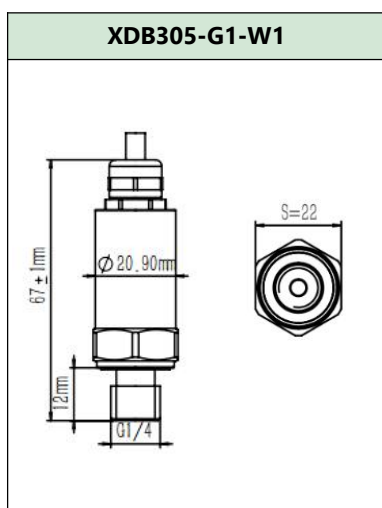
Parameters

Pressure range	-1~0~600 bar	Accuracy	±0.5%FS / ±1.0%FS
Input voltage	DC5V, 12V, 3.3V, 9-36V	Long-term stability	≤±0.2% FS/year
Output signal	4~20mA / 0~5V / 0~10V / I ² C (others)	Response time	≤3ms
Thread	G1/4, NPT1/4	Overload pressure	150% FS
Electrical connector	Hirschmann DIN43650C, others	Burst pressure	300% FS
Insulation resistance	>100 MΩ at 500V	Cycle life	500,000 times
Operating temperature	-40 ~ 105 °C		
Compensation temperature	-20 ~ 80 °C	Protection class	IP67 / IP65
Operating current	≤3mA	Weight	≈0.25kg
Temperature drift (zero&sensitivity)	≤±0.03%FS/ °C		

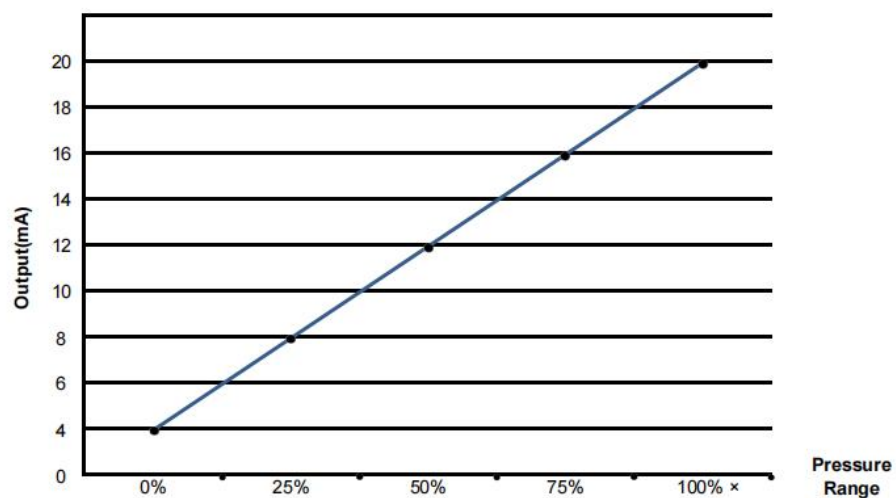
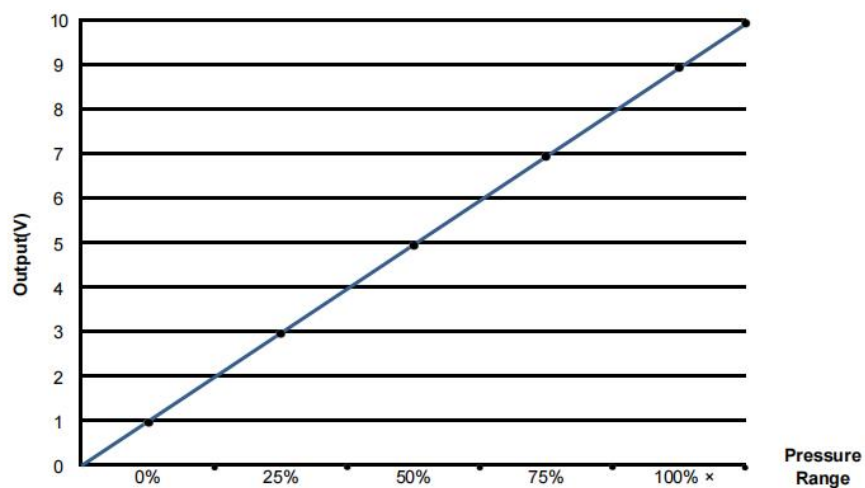
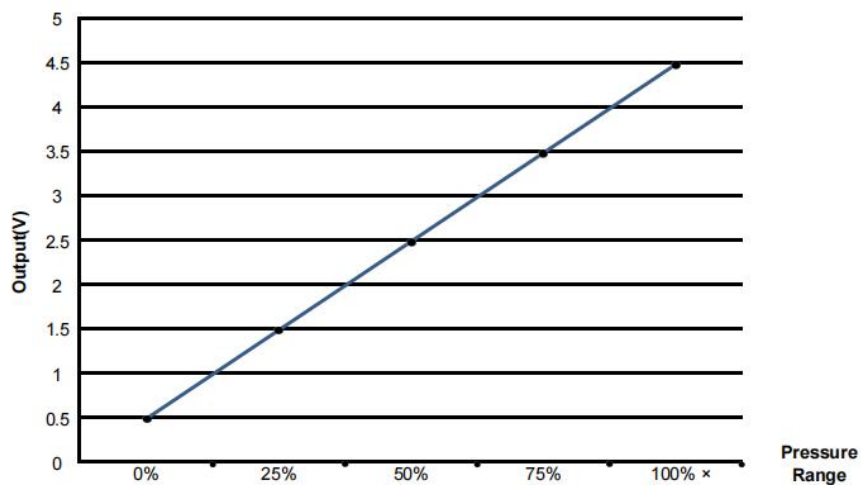
Dimensions(mm) & electrical connection

Hirschmann(DIN43650C)	Packard	M12*1		Gland direct cable
				

	Hirschmann(DIN C)			Packard			M12(3 PIN)			M12(4 PIN)			Gland direct cable	
4-20mA (2 wire)	1	Supply+	Red	1	Supply+	Red	1	Supply+	Red	1	Supply+	Brown	Supply+	Red
	2	Output+	Black	2	Output+	Black	2	Output+	Black	3	Output+	Blue	Output+	Black
0-10V 0-5V 0.5-4.5V (3 wire)	1	Supply+	Red	1	Supply+	Red	1	Supply+	Red	1	Supply+	Brown	Supply+	Red
	2	GND	Black	2	GND	Black	2	GND	Black	3	Output+	Blue	GND	Black
	3	Output+	White	3	Output+	Yellow	3	Output+	White	4	Supply-	Black	Output+	White



Output Curve



How to order

E.g. **XDB305 - 0.6M - 01 - 2 - A - G1 - W5 - 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	G1
	G1(G1/4) G2(G1/8) N1(NPT1/8) N2(NPT1/4) X(Others on request)	
6	Electrical connection	W5
	W1(Gland direct cable) W2(Packard) W3(M12-3Pin) W4(M12-4Pin) W5(Hirschmann DIN43650C) W7(direct plastic cable) 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.

 #98 Rongyang Rd, Songjiang, SH, 201613, CHINA

 +86 19921910756

 www.xdbsensor.com

 +86 021 37623075

 info@xdbsensor.com

 Xidibei Sensor & Control