

## Brass Refrigerant Pressure Transmitter

### Description

XDB307-2 & -3 & -4 series of pressure transmitters are purpose-built for refrigeration applications, utilizing ceramic piezoresistive sensing cores housed in brass enclosures. With a compact and user-friendly design, and a specially engineered valve needle for the pressure port, these transmitters ensure excellent electrical performance and long-term stability. Designed to meet the demanding requirements of refrigeration compressors, they are compatible with various refrigerants. Widely used in the air conditioning and refrigeration industry, the transmitter provides precise and reliable pressure measurements.

### Features

- ◆ Small and compact size with good sealing
- ◆ Brass/Brass with thimble
- ◆ Affordable price & economical solutions
- ◆ Complete surge voltage protection function
- ◆ Provide OEM, flexible customization

### Typical applications

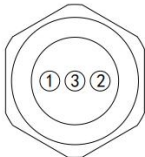
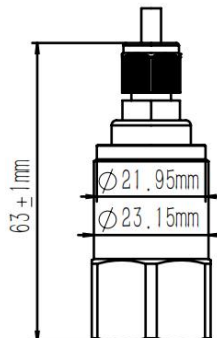
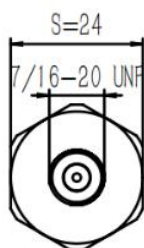
- ◆ Commercial air conditioner, Refrigeration
- ◆ HVAC system, Automobile air conditioner

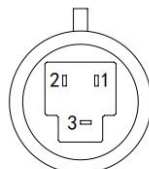
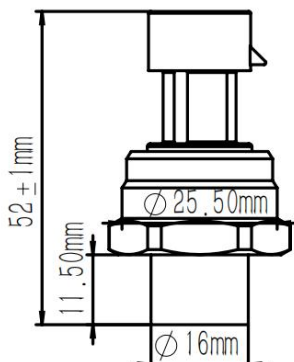



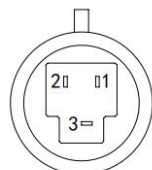
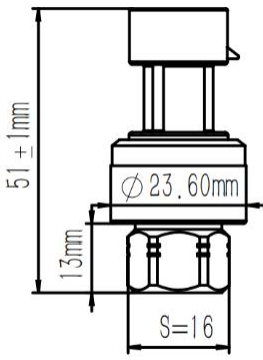

### Parameters

Pressure range	-1~30 bar (optional)	Accuracy	±0.5%FS / ±1.0%FS
Supply voltage	DC 5V, 12V, 9-36V	Long-term stability	≤±0.2% FS/year
Output signal	4~20mA / 0~5V / 0~10V (others)	Response time	≤4ms
Thread	7/16-20UNF	Safety overload pressure	150% FS
Electrical connector	Packard/ gland direct cable/ (others)	Ultimate overload pressure	200% FS
Insulation resistance	>100 MΩ at 500V	Materials in contact with liquids	SS304, ceramic, H62
Operating temperature	-40 ~ 125 °C	Housing material	Brass
Compensation temperature	0 ~ 80 °C	Protection class	IP65
Operating current	≤3mA	Weight	≈0.12kg
Temperature drift (zero&sensitivity)	≤±0.03%FS/ °C		

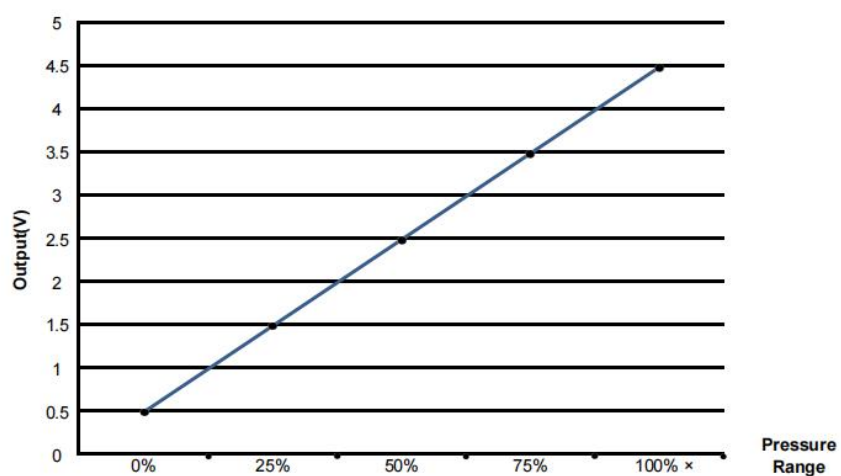
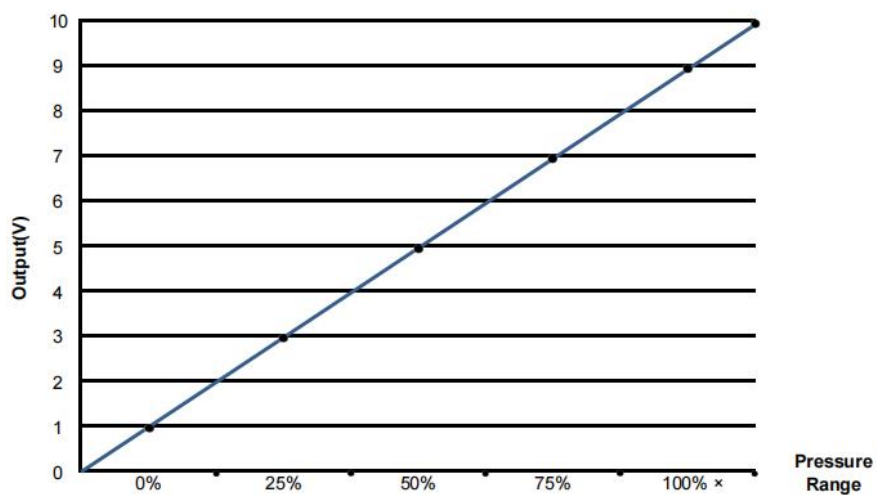
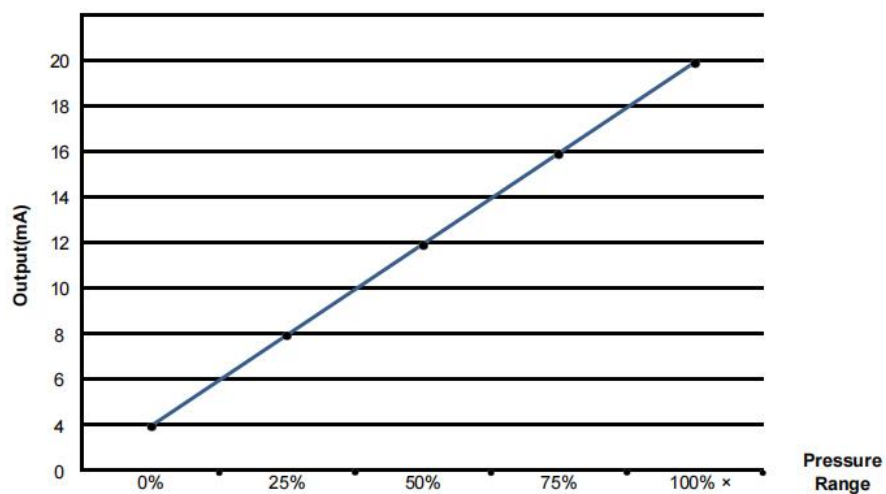
## Dimensions(mm) & electrical connection

Gland direct cable		XDB307-2-W1	
	<b>4-20mA:</b> <b>Red: Supply+①</b> <b>Black: Output+②</b>		
	<b>0-10V:</b> <b>Red: Supply+①</b> <b>Black: GND②</b> <b>White: Output+③</b>		

Packard		XDB307-3-W2	
	<b>4-20mA:</b> <b>Red: Supply+①</b> <b>Black: Output+②</b>		
	<b>0-10V:</b> <b>Red: Supply+①</b> <b>Black: GND②</b> <b>Yellow: Output+③</b>		

Packard		XDB307-4-W2	
	<b>4-20mA:</b> <b>Red: Supply+①</b> <b>Black: Output+②</b>		
	<b>0-10V:</b> <b>Red: Supply+①</b> <b>Black: GND②</b> <b>Yellow: Output+③</b>		

## Output Curve



## How to order

E.g. **XDB307- 10B - 02 - 2 - A - B1 - W2 - b - 03 - R134a**

1	Pressure range	10B
	M(Mpa)    B(Bar)    P(Psi)    X(Others on request)	
2	Pressure type	02
	01(Gauge)    02(Absolute)	
3	Supply voltage	2
	0(5VDC)    1(12VDC)    2(9~36(24)VDC)    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)    X(Others on request)	
5	Pressure connection	B1
	B1(7/16-20UNF male )    X(Others on request)	
6	Electrical connection	W2
	W1(Gland direct cable)    W2(Packard)    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	R134a
	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