

Refrigerant Pressure Transducer

Description

XDB307-5 series air conditioning refrigeration pressure transmitter is a highly reliable and durable product that is produced in large quantities at a low cost, with customization options available. It utilizes internationally advanced pressure resistance sensor cores, ensuring accurate and consistent performance. With its compact design, wide operating temperature range, and dedicated valve needle for pressure ports, it is specifically designed for precise measurement and control of fluid pressure in the air conditioning and refrigeration industry.

Features

- ◆ Ultra high cost-effectiveness
- ◆ Compact design
- ◆ High reliability and durability
- ◆ Ultra wide working temperature range

Typical applications

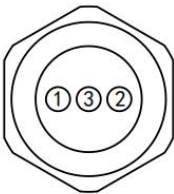
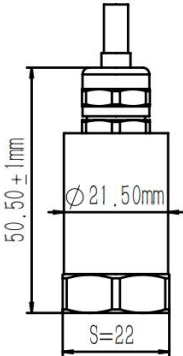

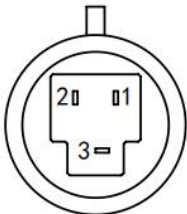
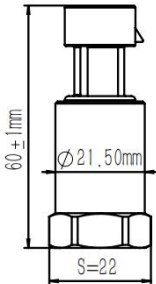

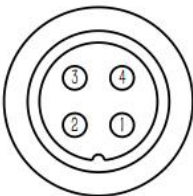
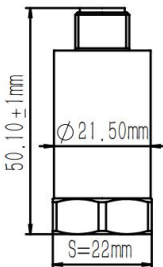

- ◆ Refrigeration control
- ◆ Air conditioning unit
- ◆ Constant pressure water supply
- ◆ Hydraulic and pneumatic systems

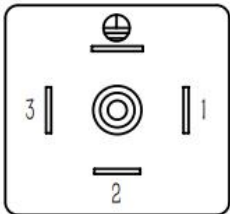
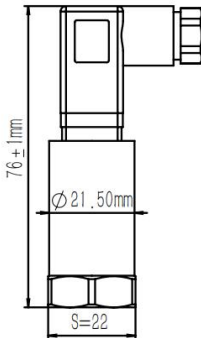
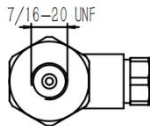


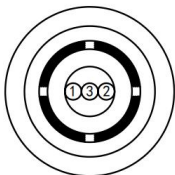
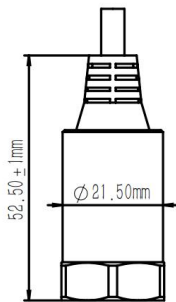
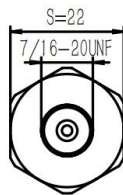
Parameters


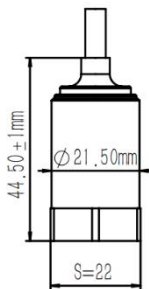
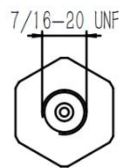
Pressure range	-1~100 bar (optional)	Accuracy	±0.5%FS / ±1.0%FS
Supply voltage	DC 5V, 12V, 3.3V, 9-36V	Long-term stability	≤±0.2% FS/year
Output signal	4~20mA / 0~5V / 0~10V / I ² C (others)	Response time	≤4ms
Thread	7/16-20UNF	Safety overload pressure	150% FS
Electrical connector	Packard/ gland direct 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	304 stainless steel
Compensation temperature	0 ~ 80 °C	Protection class	IP67 / IP65
Operating current	≤3mA	Weight	≈0.12kg
Temperature drift (zero&sensitivity)	≤±0.03%FS/ °C		

Dimensions(mm) & electrical connection

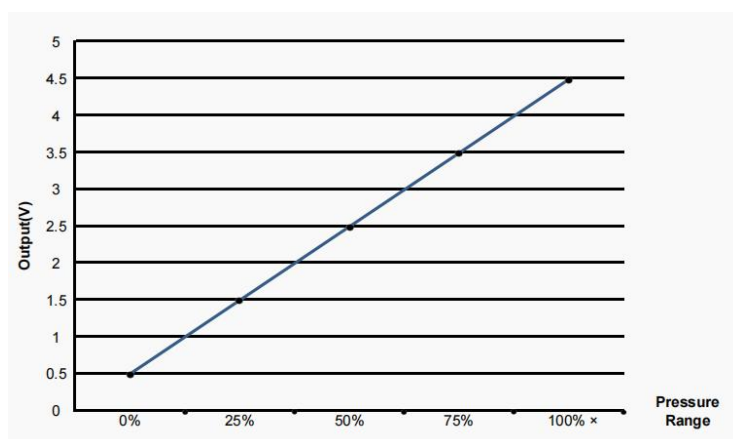
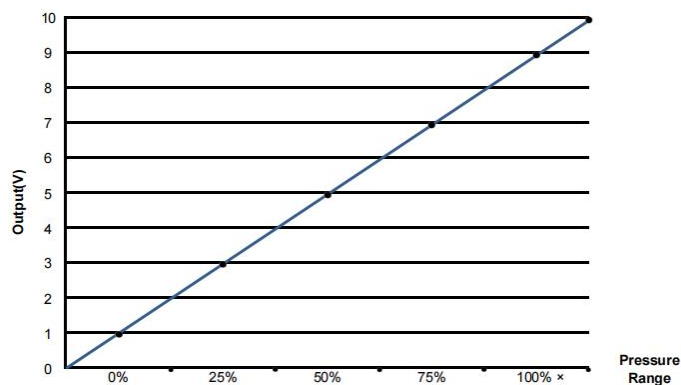
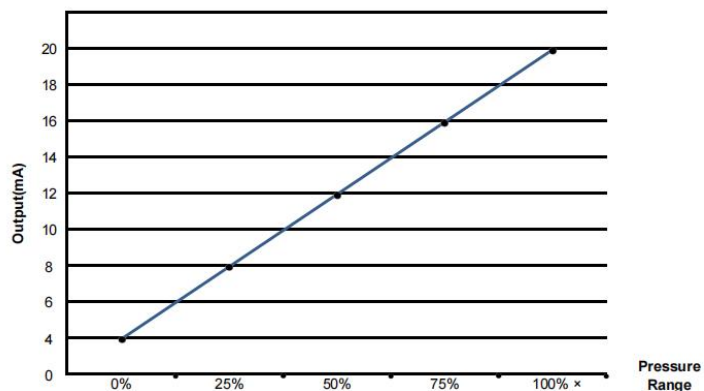
Gland direct cable		XDB307-5-W1	
	4-20mA: Red: Supply+① Black: Output+②		
	0-10V: Red: Supply+① Black: GND② White: Output+③		
Packard		XDB307-5-W2	
	4-20mA: Red: Supply+① Black: Output+②		
	0-10V: Red: Supply+① Black: GND② Yellow: Output+③		
M12-4 pin		XDB307-5-W4	
	4-20mA: Brown: Supply+① Blue: Output+③		
	0-10V: Brown: Supply+① Black: GND③ Blue: Output+④		

Hirschmann(DIN43650C)		XDB307-5-W5	
	4-20mA: Red: Supply+① Black: Output+②		
	0-10V: Red: Supply+① Black: GND② White: Output+③		

Direct plastic cable		XDB307-5-W7	
	4-20mA: Red: Supply+① Black: GND②		

Direct plastic cable		XDB307-5-W7	
	0-10V: Red: Supply+① Black: GND② Yellow: Output+③		

Output Curve



How to order

E.g. **XDB307-5-10B - 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) 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	B1
	B1(7/16-20UNF male) X(Others on request)	
6	Electrical connection	W2
	W1(Gland direct cable) W2(Packard) 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	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.

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