

High Pressure Industrial Transducer

Description

XDB302 series of pressure transducers utilize ceramic pressure sensor core, ensuring exceptional reliability and long-term stability. Encased in a sturdy stainless steel shell structure, the transducers excel in adapting to diverse circumstances 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

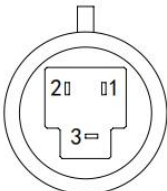
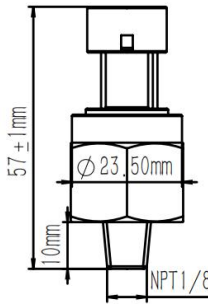

- ◆ Intelligent IoT constant pressure water supply
- ◆ Energy and water treatment systems
- ◆ Medical, agricultural machinery and testing equipment
- ◆ Hydraulic and pneumatic control systems
- ◆ Air-conditioning unit and refrigeration equipment
- ◆ Water pump and air compressor pressure monitoring

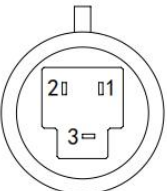
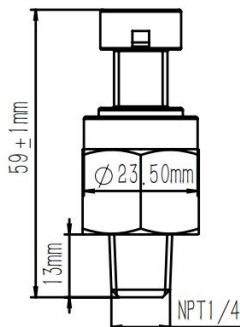



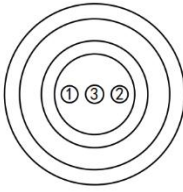
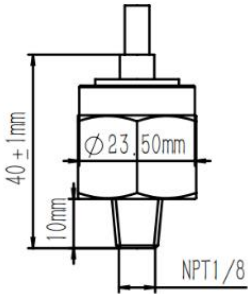

Parameters

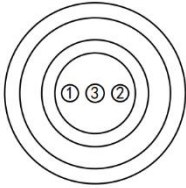
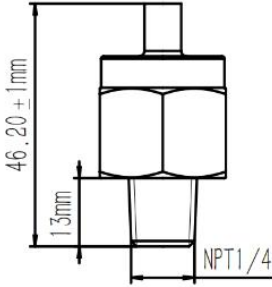

Pressure range	-1~250 bar	Accuracy	$\leq \pm 1.0\% \text{ FS}@25^\circ\text{C}$ ($\leq \pm 2.0\% \text{ FS}$ max $-20\sim 80^\circ\text{C}$)
Input voltage	DC 5V, 12V, 3.3V, 9-36V	Long-term stability	$\leq \pm 0.2\% \text{ FS/year}$
Output signal	0.5~4.5V / 1~5V / 0~5V / I ² C (others)	Response time	$\leq 4\text{ms}$
Thread	NPT1/8, NPT1/4	Overload pressure	150% FS
Electrical connector	Packard / Direct plastic cable	Burst pressure	300% FS
Insulation resistance	> 100 MΩ at 500V	Cycle life	500,000 times
Operating temperature	-40 ~ 105 °C	Housing material	304 Stainless Steel
Compensation temperature	-20 ~ 80 °C	Sensor material	96% Al ₂ O ₃
Operating current	$\leq 3\text{mA}$	Protection class	IP65
Temperature drift (zero&sensitivity)	$\leq \pm 0.03\% \text{ FS}/^\circ\text{C}$	Weight	$\approx 0.08 \text{ kg}$

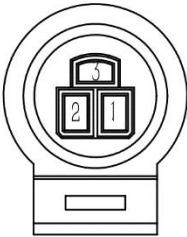
Dimensions(mm) & electrical connection

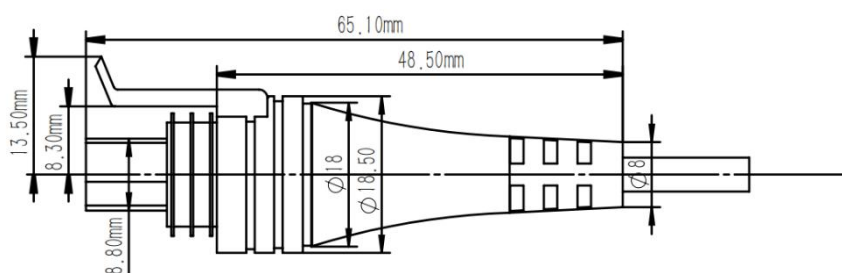
Packard		XDB302-N1-W2	
	<p>RED: +SUPPLY①</p> <p>BLACK: GND②</p> <p>YELLOW: OUTPUT+③</p>		

Packard		XDB302-N2-W2	
	<p>RED: +SUPPLY①</p> <p>BLACK: GND②</p> <p>YELLOW: OUTPUT+③</p>		

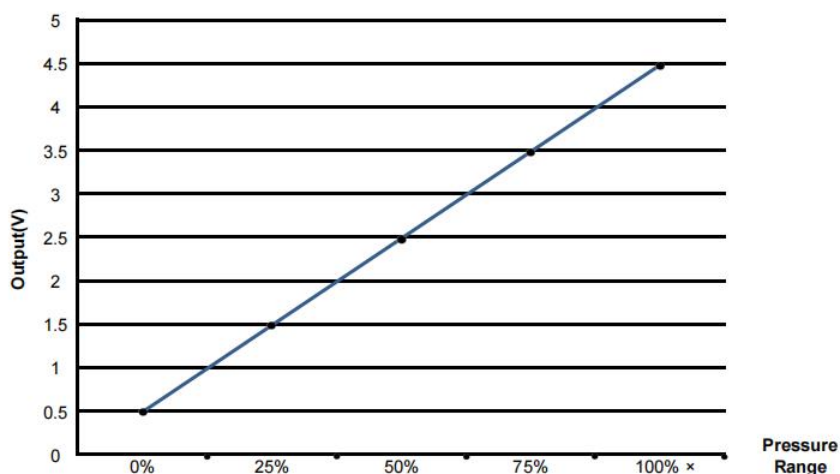
Direct plastic cable		XDB302-N1-W7	
	<p>RED: +SUPPLY①</p> <p>BLACK: GND②</p> <p>YELLOW: OUTPUT+③</p>		

Direct plastic cable		XDB302-N2-W7	
	<p>RED: +SUPPLY①</p> <p>BLACK: GND②</p> <p>YELLOW: OUTPUT+③</p>		

Packard Plug cable	
	<p>RED: +SUPPLY①</p> <p>BLACK: GND②</p> <p>YELLOW: OUTPUT+③</p>



Output Curve



How to order

E.g. **XDB302- 150P - 01 - 0 - C - N1 - W2 - c - 01 - Oil**

1	Pressure range	150P
	M(Mpa) B(Bar) P(Psi) X(Others on request)	
2	Pressure type	01
	01(Gauge) 02(Absolute)	
3	Supply voltage	0
	0(5VDC) 1(12VDC) 2(9~36(24)VDC) 3(3.3VDC) X(Others on request)	
4	Output signal	C
	B(0-5V) C(0.5-4.5V) E(0.4-2.4V) F(1-5V) G(I ² C) X(Others on request)	
5	Pressure connection	N1
	N1(NPT1/8) G2(G1/8) X(Others on request)	
6	Electrical connection	W2
	W2(Packard) W7(Direct plastic cable) X(Others on request)	
7	Accuracy	c
	c(1.0% FS) d(1.5% FS) X(Others on request)	
8	Paired cable	01
	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 transducer to the opposite connection for different electric connector.
If the pressure transducers come with cable, please refer to the right color.
- 2) If you have other requirements, please contact us and make notes in the order.