



Designed for general industrial application, featuring compact structure, high quality and stable performance.

FEATURES:

- Diffusion silicon-filled oil core with stainless steel 316L isolation diaphragm
- Stainless steel structure, and max. static pressure up to 20MPa
- Temperature compensation and aging screening
- Full solid insulation, high stability, reliability and accuracy
- Compact size
- Liquid, gas and other media

APPLICATIONS:

The PTD500 pressure transducer is produced by putting OEM differential pressure sensor into full-sealed housing with a pressure port for both positive and negative cavities.

Can be used for industrial process control and flow measurement in a wide range of environments.

PERFORMANCE PARAMETERS

Temperature 25°C, power 5VDC or 12VDC, RH45%~75%, Atmospheric pressure 86~106kPa

Pressure Range	0~10kPa...3.5MPa differential pressure (Note 1)			
Static Pressure	Max. Static pressure 20MPa (Note 2)			
Output Signal	0.5~4.5V Ratio	0~10V Voltage	0~5V Voltage	4mA~20mA
Power Supply (U+)	5VDC	12~30VDC	10VDC~30VDC	
Output Load	≥10KΩ			≤(U+ - 10) / 0.023Ω
Over Voltage	16VDC	30VDC		
Reverse Voltage	-16VDC	-30VDC		
Accuracy at Room Temperature	Default: ±0.5% F.S., Option: ±0.25% F.S. (Note 1)			
Sensor's Temperature	-40°C~85°C (Note 3)			
Compensated Temperature	0°C~50°C			
Storage Temperature	-40°C~105°C			
Long-term Stability	±0.25% FS/year			
Settling Time	(10%~90%) ≤10ms			

Note 1: For products with pressure range 0~35kPa, only ±0.5%F.S or ±1%F.S accuracy is available.

Note 2: For products with a static/difference pressure ratio greater than 10 times, please consult the manufacturer.

Note 3: The operating temperature shall not exceed the temperature range of the seal materials, and it is the minimum range between the seal materials and the sensor. The default material is NBR, which is suitable for medium temperature of -30~120°C. If one chooses FKM seal ring, the medium temperature should be somewhere between -20~125°C. Please specify if the medium temperature exceeds 85°C for long.




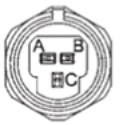
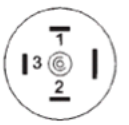


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Overload Pressure	≥150%F.S
Burst Pressure	≥200%F.S
Pressure Connection	G1/4(female), G1/4, G1/2(female), G1/2, NPT1/4(female), NPT1/4
Electrical Connection	DIN43650A,Cable outlet, GX12 connector, Packard, M12x1
Seal Materials for Wetted Parts	Default: NBR, Option: FKM
Housing Material	wetted part: 316L, the rest part: 304
Insulation Resistance	≥100MΩ@100VDC
Vibration Resistance	10g, 5~2000Hz
Shock Resistance	20g, 11ms half sine
Ingress Protection	IP65

ELECTRICAL CONNECTIONS

DIN 43650 A*		Packard Metri-Pack	
	U+ / I+ = 1		U+ / I+ = B
	U- / I- = 2		U- / I- = A
	S+ = 3		S+ = C
	Shield = 4 / Housing		Shield = Housing
DIN 43650 C		Cable outlet	
	U+ / I+ = 1		U+ / I+ = Red
	U- / I- = 2		U- / I- = Black
	S+ = 3		S+ = Green / Blue
	Shield = 4 / Housing		Shield = Housing / Yellow
M12 x 1(4 Pin)			
	U+ / I+ = 1		
	U- / I- = 3		
	S+ = 4		
	Shield = 2 / Housing		

*Standard