

DATASHEET

Pressure

Pressure Transmitter

For General Industrial Applications

Model PWP330

Applications

- Hydraulic and pneumatic systems
- Metallurgy
- Oxygen service
- Chemical industry
- Oil&gas pipeline network, refining
- Coal and mine
- Shipping and aerospace
- Oil engine and generator units

Features

- No oil fill-Prevents thermal instability & leakage
- Accuracy $\pm 0.25\%$ FS
- Wide choice of pressure range up to 200MPa
- High elasticity stainless steel 17-4PH measuring element
- Customized sputtered thin film sensor core can work at -196°C or temperature higher than $+120^{\circ}\text{C}$



Pressure transmitter PWP330 Series

Description

The model PWP330 sputtered thin film pressure sensor is designed for OEM who require top of the line performance, reliability and stability at an affordable price. Measuring part is stainless steel 17-4PH material with high elasticity, with good property of material-resistance.

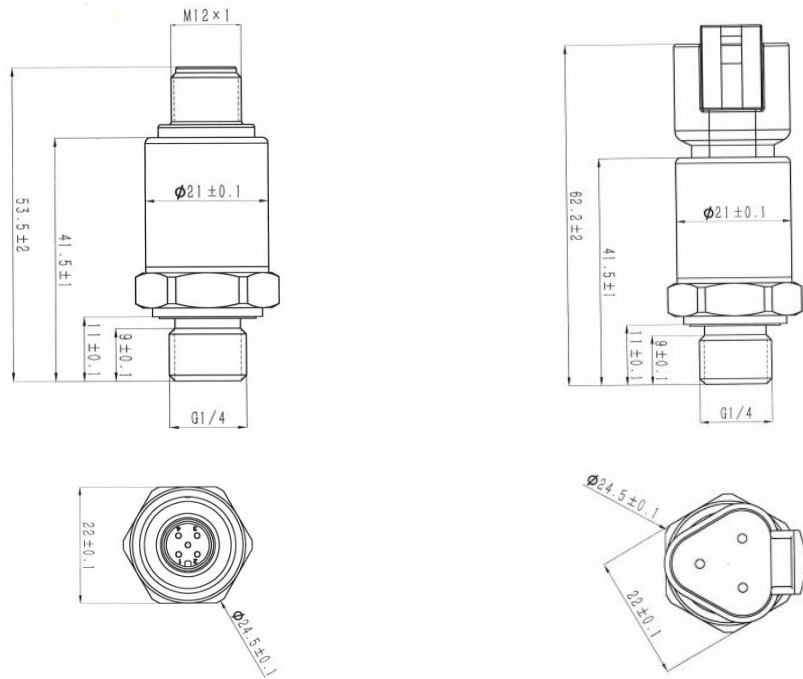
PWP330 offers exceptional 0.2% FS accuracy; features an all welded stainless steel constructions for a robust design to protect sensor in demanding industrial environments and IP65~IP67 seal for moisture and humidity protection. It has CE, RoHS and CNEX certificate approved.

What's more, a robust internal design ensures that the transducers can survive high levels of vibration. A high level of EMC protection allows the transmitters to perform to the most stringent of industrial standards.

Specifications

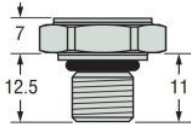
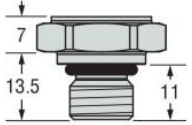
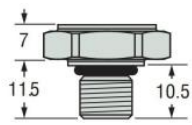
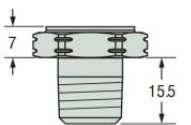
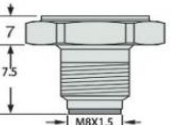
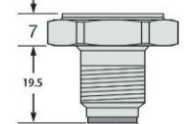
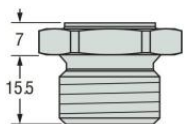
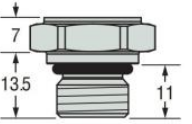
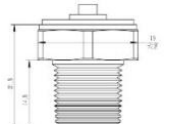
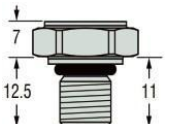
Model	PWP330		
Pressure Type	Relative (gauge)		
Pressure Range	Standard: 5Mpa, 25MPa, 40MPa, 50MPa, 60MPa Customizable: 2.5~60MPa		
Safe Overload	≤200%FS		
Burst Pressure	300%FS		
Electrical Connection	M12*4pins connector (Or by customized)		
Protection Level	IP67		
Accuracy	±0.2%FS, ±0.5%FS, ±1.0%FS by customized		
Signal Output & Power Supply	4-20mA(2 wires) 0.5-4.5V(3 wires) 8~32V DC 5V DC		
Response Time	≤3ms (10%~90%)		
Medium Compatible	Liquid or air compatible with 17-4PH stainless steel		
Load Resistance	Current type: $RL \leq 50 \times (U_b - 8) \Omega$; Voltage type: $RL \geq 2K\Omega$.		
Total current consumption	Current signal(2wires): Max about 23mA Voltage signal(3wires): <5mA I^2C (4wires): <5mA (Available to customize low consumption <5 μA) RS485(4wires): <5mA (Available to customize low consumption <1.1mA)		
Accuracy&Performance	0.2% Accuracy Class	0.5% Accuracy Class	1.0% Accuracy Class
Non-linear (%FS)	≤0.15	≤0.25	≤0.5
Hysteresis (%FS)	≤0.1	≤0.15	≤0.25
Repeatability (%FS)	≤0.1	≤0.15	≤0.25
Long-term Stability (%FS/year)	≤0.2	≤0.5	≤1.0
Zero Temp Drift (%FS/°C)	≤0.1	≤0.1	≤0.1
Working Temp.	Medium -40°C~+125°C; Environmental -40°C~+85°C		
Storage Temp.	-40°C~+120°C		
Vibration Environment	20g (@10Hz~2000Hz)		
Impact Resistance	50g/11ms		
Service Life	>10 million load cycles (within measurement range)		
EMC Standard	EN IEC 61326-1:2021; EN IEC 61326-2:2021		

Dimensions and Drawings

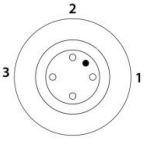
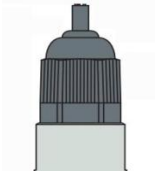
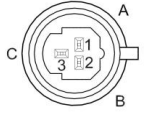
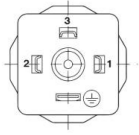
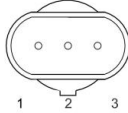
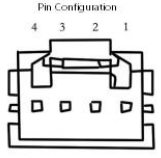
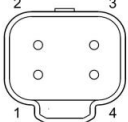
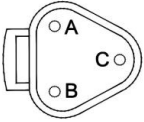


*Unit: mm. Above is typical structures. Other structures and dimensions can be customized.

Pressure Interface

Code	G2	M3	G1	G5	M1
Overall Dimensions	 G1/4-19	 M12×1.5	 G1/8	 G1/4-19A	 M8×1.5 female
Code	M6	G4	M4	N2	G3
Overall Dimensions	 M20×1.5	 G1/2	 M14×1.5	 NPT1/4	 G3/8

Electrical Interface

Code	01		02		03		04	
Interface Type	 M12×1		 Direct Cable Outlet		 Packard		 Hirschmann	
Pin Definition	Current 1 Power + 2 Loop 3 / 4 /	Voltage 1 Power + 2 Output 3 GND 4 /	Current Red: Power Black: Loop	Voltage Red: Power Black: GND Blue: Output + White: Output -	Current A: Loop B: Power + C: /	Voltage A: GND B: Power + C: Output	Current 1 Power + 2 Loop - 3 / 4 /	Voltage 1 Power + 2 GND 3 Output 4 /
Code	05		06		07		08	
Interface Type	 AMP		 JS.T Connector		 Deutsch DT04-4P		 Deutsch DT04-3P	
Pin Definition	Current 1 / 2 Loop 3 Power +	Voltage 1 Output 2 GND 3 Power +	Voltage 1 Power Supply (+) 2 Output (+) 3 GND 4 Output (-)		Current 1 Loop - 2 Power + 3 / 4 /	Voltage 1 GND 2 Power + 3 / 4 Output	Current A: Power + B: Loop C: /	Voltage A: Power + B: GND C: Output



How to Order

Example Part Number: 33001[100]MGT1S2G2A2M1000

Model No.	PWP330	330
Electronic Connection	01=M12X1 02=Direct cable outlet 03=Packard connector 04=Hirschmann connector 05=AMP connector 06=JS.T connector 07=Deutsch DT04-4P 08=Deutsch DT04-3P 00=Customized	01
Pressure Range	0MPa~2.5MPa ...60MPa Directly write in []	[100]
Pressure Units	B=bar P=Psi K=kPa M=MPa	M
Pressure Type	G= Gauge/Relative A=Absolute	G
Signal Output	T1=4-20mA(2wires) T2=0.5-4.5V(3wires) T3=Customized	T1
Power Supply	S1=8-32VDC S2=5VDC S0=Customized	S2
Pressure Connection	G2=G1/4-19 M3=M12×1.5 G1=G1/8 G5=G1/4-19A M1=M8×1.5 M6=M20×1.5 G4=G1/2 M4=M14×1.5 N2=NPT1/4 G3=G3/8 C0=Customized	G2
Accuracy	A1=0.5%F.S. A2=0.25%F.S. A3=1.0%F.S.	A2
Housing Material	M1=SUS304(Typical) M2=316L M0=Customized	M1
Cable Length	000=Non-cable 001= 1m cable 002= 2m cable ...	000

*Means to order: Pressure transmitter PWP330 with M12 4pins connector, 0~100MPa Gauge, 4-20mA, 12-30VDC, G1/4" female, 0.25%FS accuracy, SUS304 material, cable length is 0.

You may also Need

Reference Picture	Description	Product
	<p>To connect with pressure transmitter and to have a site indicator of the measured value, have high&low value alarms, record and control.</p>	<p>Display/indicator/controller</p>
	<p>Transmitter integrated with pulsation dampers is to designed for severe medium influences like cavitation, liquid hammer or pressure peaks and offers a reliable pressure measurement, even under harsh environmental conditions.</p>	<p>Pulsation dampers</p>

***Tell us medium / which application / measuring range / working temperature / signal output / what you wanna to realize, our sales engineer will recommend suitable model for you.*