DATASHEET

Pressure

Pressure Transmitter
For General Industrial Applications
Model PWP350

Applications

- Water treatment
- Coal & mine
- Chemical industry
- Petroleum
- Pumps and compressors
- Agricultural irrigation
- Shipbuilding

Pressure transmitter PWP350 series

Features

- Suits almost all industrial applications
- Strongly compatible with air, oil, hydraulic and water pressure
- Equipped with 3 intelligent protection
- High stability, low drift
- Variety choices for structure, outputs, electrical connectors and pressure ports.

Description

PWP350 pressure transmitter/transducer applies high quality Germany imported piezoresistive pressure sensor chip with a fully welded stainless steel housing. Equipped with 3 intelligent protection: Over-voltage, over-current and reverse wiring protection. After temperature compensation, digital circuit correction and signal conditioning, it outputs standard industrial application and networking signals.

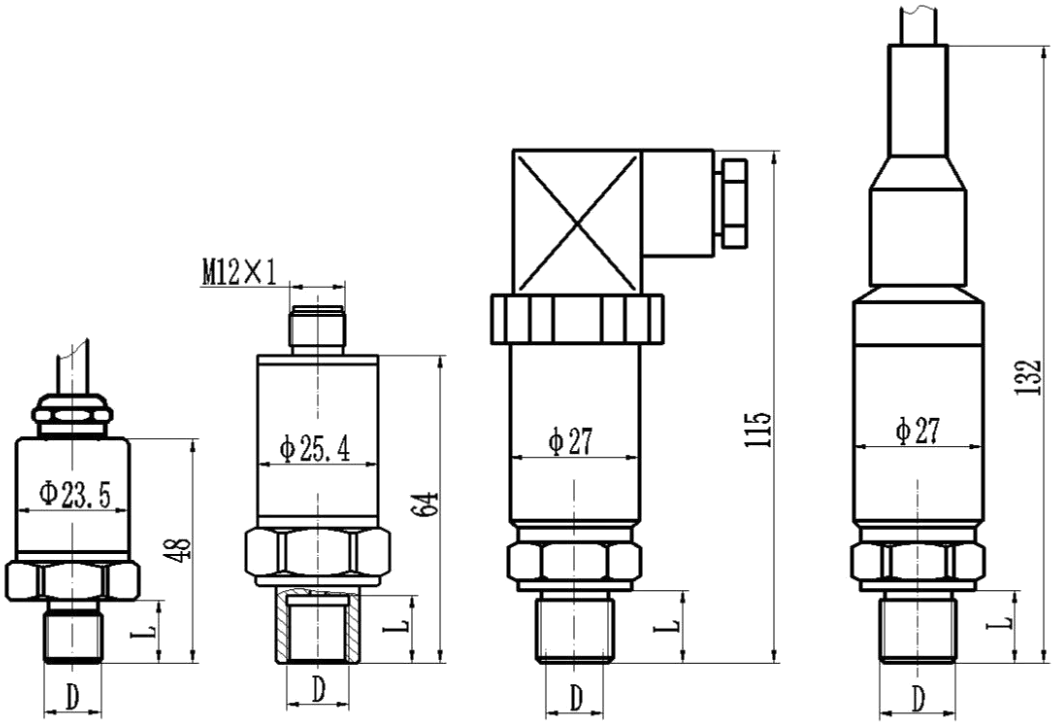
PWP350 can be used in petroleum, chemical, metallurgy, electric power, textile, electronics, medicine, food, environmental protection and other fields, and widely used in HAVC, purification plant and boiler automatic detection.

To be proven as the excellent performance for many solutions worldwide. OEM&ODM is available. Come to us to know more.

Specifications

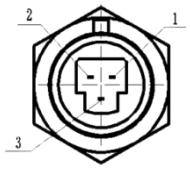
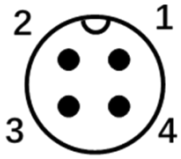
Model	PWP350		
Pressure Type	Relative (gauge) /Absolute pressure/Sealed gauge pressure		
Pressure Range	-0.1MPa ... 0kPa~10kPa …100MPa		
Safe Overload	≤200%FS(<10MPa); ≤150%FS(≥10MPa)		
Burst Pressure	300%FS		
Electrical Connection & IP Rating	DIN43650 Hirschmann Connector... IP65 Packard Connector... IP65 Directly outlet cable... IP67 M12*4pins connector... IP67		
Accuracy	±0.5%FS(Typical), ±0.25%FS, ±0.1%FS optional		
Signal Output & Power Supply	4-20mA(2 wires) 0.5-4.5V(3 wires) 0-5V(3 wires) 0-10V(3 wires) 12-30VDC 5VDC 8-24VDC 12-30VDC ---------- I²C RS485 Modbus 3.3 or 5VDC 5-30VDC		
Response Time	≤3ms (10%~90%)		
Medium Compatible	Liquid compatible with ceramic and stainless steel SUS304, SS316L material		
Load Resistance(2 wires)	R≤(U-10)/0.02-RD (U: Power supply, RD: Internal resistance in the cable)		
Total current consumption	Current signal(2wires): Max about 23mA Voltage signal(3wires): <5mA I²C(4wires): <1.3mA (Available to customize low consumption <5 μA) RS485(4wires): <5mA (Available to customize low consumption <1.1mA)		
Accuracy&Performance	0.1% Accuracy Class	0.25% Accuracy Class	0.5% Accuracy Class
Non-linear (%FS)	≤0.1	≤0.2	≤0.4
Hysteresis (%FS)	≤0.05	≤0.05	≤0.1
Repeatability (%FS)	≤0.05	≤0.05	≤0.1
Long-term Stability (%FS/year)	≤0.1	≤0.2	≤0.5
Zero Temp Drift (%FS/℃)	≤0.01	≤0.03	≤0.05
Compensation Temp.	0℃~+50℃(≤200kPa), -10℃~+70℃(>200kPa)		
Working Temp.	-40℃~+85℃		
Storage Temp.	-40℃~+85℃		
Vibration Environment	10g (@10Hz~2000Hz)		
Impact Resistance	100g/11ms		
Service Life	>10 million load cycles (within measurement range)		
Explosion Proof	Exia II CT6		
EMC Standard	EN IEC 61326-1:2021; EN IEC 61326-2:2021		

Dimensions and Drawings



*Unit:mm. Typical structures. Other structures and dimensions can be customized.

Electrical Connection

DIN43650 Hirschmann connector					
	Terminal	Current(2wires)	Voltage(3wires)	IIC(4wires)	RS485(4wires)
	1	Vcc	Vcc	Vcc	Vcc
	2	Iout	GND	GND	GND
	3	/	Vout	SCL	RS485A
	⏚	PE	PE	SDA	RS485B
Packard Connector					
	Terminal	Current(2wires)	Voltage(3wires)	IIC(4wires)	RS485(4wires)
	1	Vcc	Vcc	/	/
	2	Iout	GND	/	/
	3	/	Vout	/	/
	4	/	/	/	/
M12 4 pins connector					
	Terminal	Current(2wires)	Voltage(3wires)	IIC(4wires)	RS485(4wires)
	1	Vcc	Vcc	Vcc	Vcc
	2	Iout	GND	GND	GND
	3	PE	Vout	SCL	RS485A
	4	/	PE	SDA	RS485B

Directly outlet cable					
	Wire Color	Current(2wires)	Voltage(3wires)	IIC(4wires)	RS485(4wires)
	Red	Vcc	Vcc	Vcc	Vcc
	Green	Iout	GND	GND	GND
	Yellow	/	Vout	SCL	RS485A
	Blue	/	/	SDA	RS485B
	Black	PE	PE	PE	PE

How to Order

Example Part Number: 350H[10]BGT1S2C4A2M1000

Model No.	PWP350	350
Electronic Connection	H=DIN43650 Hirschmann terminal box C=Direct outlet cable M=M12 4pins connector P=Packard 3 pins connector D=LED digital display(for 4-20mA only) 0=Customized	H
Pressure Range	-0.1MPa … 0kPa~10kPa … 100MPa Directly write in []	[10]
Pressure Units	B=bar P=Psi K=kPa M=MPa	B
Pressure Type	G= Gauge/Relative A=Absolute S=Sealed gauge pressure	G
Signal Output	T1=4-20mA(2wires) T2=0-5V(3wires) T3=1-5V(3wires) T4=0-10V(3wires) T5=0.5-4.5V(3wires) T6=I^2C(4wires) T7=RS485(4 wires) T0=Customized	T1
Power Supply	S1=8-24VDC S2=12-30VDC S3=5VDC S4=3.3VDC S5=5-30VDC S0=Customized	S2
Pressure Connection	C1=G1/4” male C2=1/4”NPT male C3=M20x1.5 male C4=G1/4” female C5=1/4”NPT female C6=G1/2”male C7=1/2” NPT male C8=1/8”NPT male C0=Customized	C4
Accuracy	A1=0.5%F.S. A2=0.25%F.S. A3=0.1%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 PWP350 with Hirschmann connector, 0~10 bar 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
	To connect with pressure transmitter and to have a site indicator of the measured value, have high&low value alarms, record and control.	Display/indicator/controller
	Cast aluminum material with IP67 protection level for submersible pressure transmitter. Moisture-proof sealing design, insulation protection against electric shock. To be placed in dry environment or in a cabinet.	Terminal box 0010

***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.*