

**DATASHEET****Pressure**

# Pressure Transmitter Explosion-proof With Display Model PWP350-LD

## Applications

- Environmental protection
- Coal & mine, iron industry
- Petrochemical, chemical, energy industry
- Civil explosion
- Medicine
- Agricultural, water treatment, food industry
- Shipping

## Features

- 4-bits digital LED/LCD display
- Available with HART or both RS485&4-20mA
- Explosion proof Ex d IIC T5 Gb
- Suits almost all industrial applications
- Wide measuring range up to 100MPa
- Wide pressure type including differential pressure

**Pressure transmitter PWP350-LD**

## Description

PWP350-LD industrial pressure transmitters can be used for measurements from -1 bar up to 100MPa. They can be used for differential, gauge, absolute and sealing gauge pressures measurements, and examination of liquid level. With a big HD LED or LCD display, enables to read measured value locally.

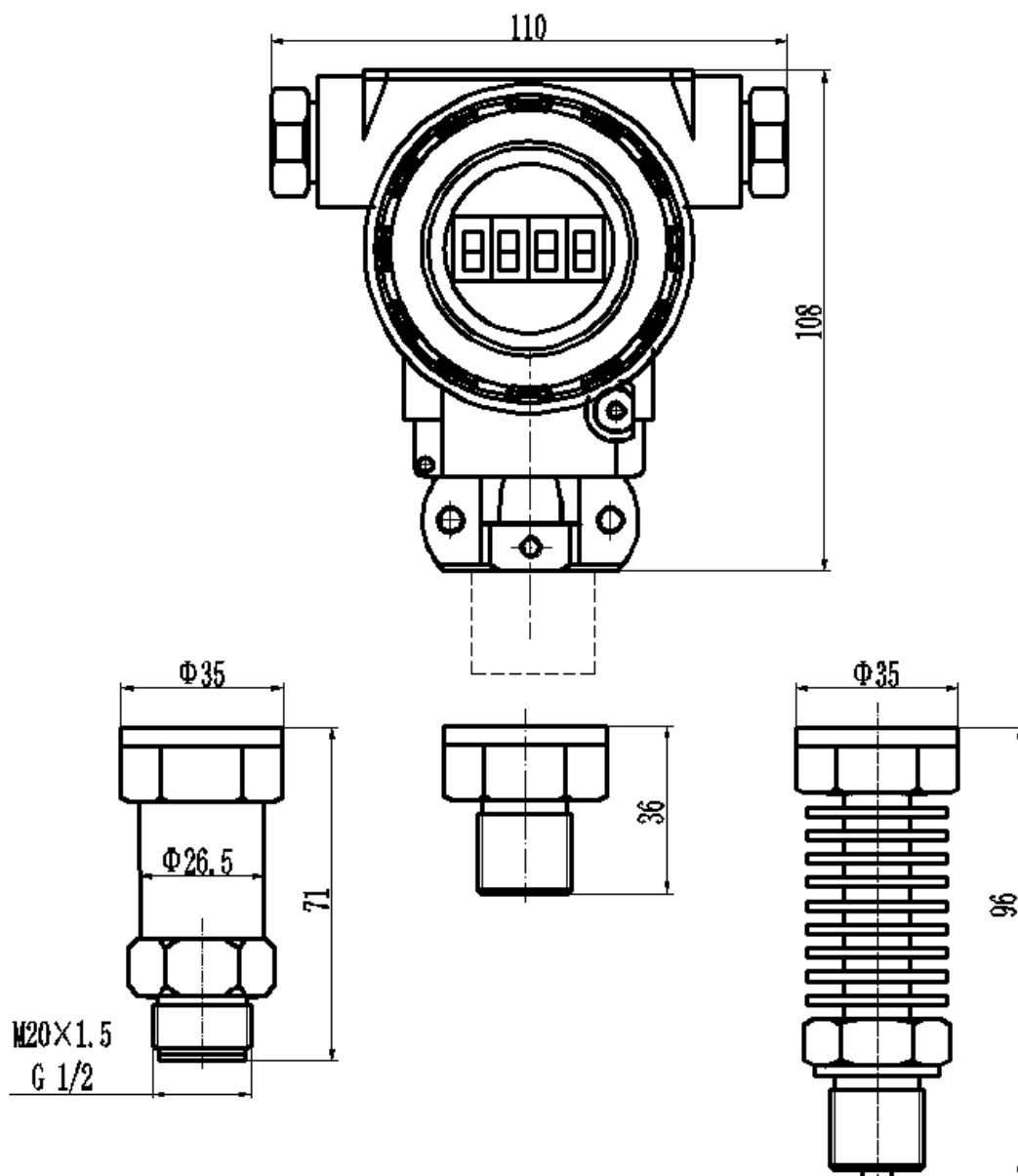
With a cast aluminum enclosure, let it to have strong resistance for shock and vibration and to perform a great job even in the harshest application conditions. The sensor chip can be high reliable piezoresistive, ceramic capacitor, sapphire, sputtered thin film and others according to the different application of industries.

PWP350-LD, after temperature compensation, digital circuit correction and signal conditioning, it outputs standard industrial application and networking signals. This industrial pressure transmitter with high accuracy, good stability and excellent anti-interference and explosion proof performance.

## Specifications

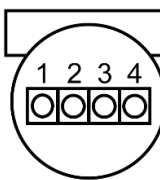
Model	PWP350-LD		
Pressure Type	Relative (gauge) /Absolute /Sealed gauge pressure/Differential pressure		
Pressure Range	-0.1MPa ... 0kPa~10kPa ...100MPa		
Safe Overload	≤200%FS(<10MPa); ≤150%FS(≥10MPa)		
Burst Pressure	300%FS		
Electrical Connection	Industrial terminals		
IP Rating	IP66		
Accuracy	±0.5%FS(Typical), ±0.25%FS, ±0.1%FS, optional		
Signal Output & Power Supply	4-20mA(2 wires) 15-30VDC	4-20mA+HART 15-30VDC	0-10V(3 wires) 12-30VDC
	I <sup>2</sup> C 3.3 or 5VDC	RS485 Modbus 5-30VDC	4-20mA+RS485 12-30VDC
Response Time	≤3ms (10%~90%)		
Medium Compatible	Liquid compatible with SUS304, 316L or ceramic 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 I <sup>2</sup> C(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℃; -10℃~+60℃(Explosion-proof, directly outlet cable)		
Storage Temp.	-20℃~+80℃		
Vibration Environment	10g (@10Hz~2000Hz)		
Impact Resistance	100g/11ms		
Service Life	>10 million load cycles (within measurement range)		
Explosion Proof	Ex d IIC T5 Gb		
EMC Standard	EN IEC 61326-1:2021; EN IEC 61326-2:2021		

## Dimensions and Drawings



\*Above is typical structures. Other structures and dimensions can be customized.

## Electrical Connection

Industrial Terminals					
	Terminal	Current(2wires)	Voltage(3wires)	IIC(4wires)	RS485(4wires)
	1	PE	PE	SDA	RS485B
	2	/	Vout	SCL	RS485A
	3	Iout	GND	GND	GND
	4	Vcc	Vcc	Vcc	Vcc



## How to Order

**Example Part Number: 350LCD[10]MGT1S2C4A2M1d000**

Model No.	PWP350	350
Electronic Connection	LCD=4-bits LCD digital display(for 4-20mA only) LED=4-bits LED digital display(for 4-20mA only) 0=Customized	LCD
Pressure Range	-0.1MPa ... 0kPa~10kPa ... 100MPa Directly write in []	[10]
Pressure Units	B=bar    P=Psi    K=kPa    M=MPa    H=mH2O	M
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 <sup>2</sup> C(4wires) T7=RS485(4 wires)    T8=HART    T0=Customized	T1
Power Supply	S1=12-30VDC    S2=15-30VDC    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
Explosion Proof	d=Exd IIC CT5 i=Exia II CT6	d
Cable Length	000=Non-cable    001= 1m cable    002= 2m cable    ...	000

\*Means to order: Pressure transmitter PWP350 with LCD display, 0~10Mpa Gauge, 4-20mA, 15-30VDC, G1/4" female, 0.25%FS accuracy, SUS304 material, Exd explosion proof, 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.*