

**PW221 Electronic Digital Pressure Switch**
**MAIN FEATURES**

- The 4 digit number shows the current pressure value.
- Pressure preset switch point and delay switching output
- The shell is equipped with node action led for easy observation
- 1-2 channels of switching value output, switching value can be arbitrarily set between zero point and full degree
- PNP, NPN and relay, and the analog output (4-20mA) switch type


**OVERVIEW**

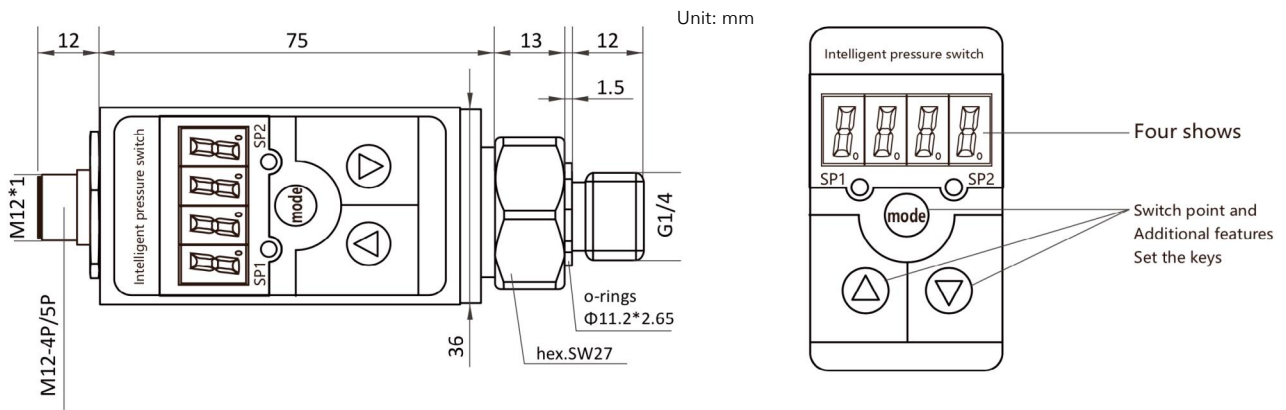
PW221 electronic pressure sensor adopts ceramic or film technology to ensure the high precision and durability of the sensor. With on-site display, LED digital display of on-site pressure or setting menu. Switch status, menu setting switch point, analog quantity starting and ending point, output function, storage function and display function, so the setting need not be completed on the spot. With high reliability, output can be directly used for PLC. M12 locking connector, easy to disassemble and connect, high level of protection. Positive or negative pressure can be measured. The sensor can be used as both a pressure switch and a pressure transmitter because it has both a switching output and an analog output. The display shell can rotate freely in the range of 270°, fully meeting the visual requirements.

Gas-liquid dual-use, suitable for: pump control, tank detection, liquid level control, filter plugging, monitoring, leakage monitoring, but also widely used in hydraulic and pneumatic occasions: such as mechanical equipment and process control.

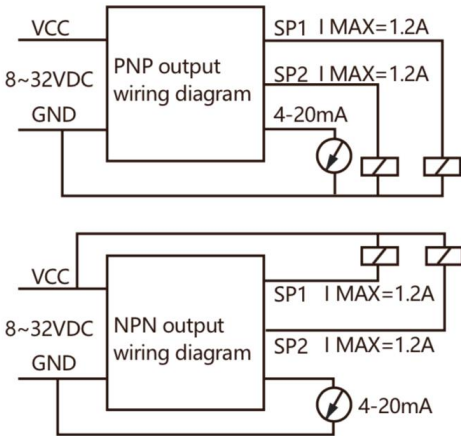
**SPECIFICATION**

Control range	-1bar~1000bar, 0~25 bar(Differential pressure type)
Power supply voltage	12... 30 VDC
Electrical protection	reverse pole, overload, short circuit protection
Switch output	Set range 0.5%... 100% range, Switch number 1 or 2 is optional Output function PNP; NPN normally on or normally off can be set Rated current ≤300mA, Response time ≤30ms
Analog current output	Output type 4... 20mA analog output, Load Ω 500 or less
Wiring protection	phase reversal, overload, paragraph protection
Digital display	Red 9mmLED, range -999... 9999
Accuracy	≤±0.5% F.S.
Temperature impact	< ±0.03%FS/K
Temperature	ambient temperature: -20... 80 °C, medium temperature: -30... 100 °C, storage temperature: -40... 100 °C
Material	Process connection: stainless steel +NBR seal Shell material: zinc alloy
Electrical connection	M12×14 core connector, M12×15 core connector (for 1 analog quantity +2 switching quantity)
Protection level	IP67

**DIMENSION & PANEL FUNCTION**



**TYPICAL WIRING**



hersman	M12*1 -4P	Five core navigation	M12*1 -5P
1:VCC	1:VCC (brown)	1:VCC ( red )	1:VCC (brown)
2:GND	2:SP2 (white)	2:GND (yellow)	2:SP2 (white)
3:4~20mA	3:GND (blue )	3:SP1 (blue )	3:GND (blue)
	4:SP1 (black)	4:SP2 (green )	4:SP1 (black)
		5:4~20mA gray	5:4~20mA gray

Optional accessories – electrical accessories

name	Outline drawing/dimension drawing (mm)	material	model
M12*1-5Pin (2m cable)		PUR	ZL05-PU02G
M12*1-5Pin (5m cable)			ZL05-PU05G
M12*1-5Pin (10m cable)		PVC	ZL05-PU010G
M12*1-5Pin (2m cable)			ZL05-PC02G
M12*1-5Pin (5m cable)		PUR	ZL05-PC05G
M12*1-5Pin (10m cable)			ZL05-PC010G
M12*1-5Pin (2m cable)		PUR	ZL05-PU02W
M12*1-5Pin (5m cable)			ZL05-PU05W
M12*1-5Pin (10m cable)		PVC	ZL05-PU010W
M12*1-5Pin (2m cable)			ZL05-PC02W
M12*1-5Pin (5m cable)		PVC	ZL05-PC05W
M12*1-5Pin (10m cable)			ZL05-PC010W

M12*1-4pin/5Pin self-connector/size drawing (mm)	model
	GL04 (4Pin joint)
	GL05 (5Pin joint)
	WL04 (4Pin joint)
	WL05 (5Pin joint)

**ORDER CODE**

<b>Code:</b>	A	-	B	-	C	-	D	-	E	-	F	-	G
<b>PW221</b>	A	-	M	-	0-50bar	-	S	-	S	-	G 1/2	-	2S

Model type	Code A
Standard type	A
Hygienic type	C
Differential pressure type	D
Electric connection type	Code B
Hirschmann connector	H
M12 connector	M
Aviation plug	A
More customized	C
Pressure Range(X=specific range)	Code C
-1Bar ~1000Bar (standard type)	X Bar
-1Bar ~60Bar(Hygienic type)	X Bar
0Bar ~25Bar(DP type)	X Bar
Accuracy	Code D
0.1% (custom)	C
0.25%(typical)	T
0.5%(standard)	S
Interface material	Code E
SS304	S
SS316L	L
Other customized	C

Process connection	Code F
G1/2	G1/2
M20*1.5	M20
G1/4	G1/4
G1/8	G1/8
1/2NPT	1/2NPT
3/8NPT	3/8NPT
1/4NPT	1/4NPT
1/4PT	1/4PT
1/8NPT	1/8NPT
1.5 inch chuck (outer diameter 50.5mm)	
2 inch chuck (outer diameter 64mm)	
DN25 flange (GB/T)	
DN50 flange (GB/T)	
Diaphragm type G1 male thread	
More customized	C
Output	Code G
Two switch outputs	2S
Switch output + analog output(0...20/4...20mA)	2A
Switch output + analog output(0...5/1...5V)	5V
Switch output + analog output(0...10/1...10V)	10V
PNP output	P
NPN output	N