PW222 Electronic Digital Pressure Switch

MAIN FEATURES

- Adopting OLED LCD display screen, supporting Chinese and English display
- The use of microprocessors increases flexibility and functionality
- One analog quantity+two switching quantity dual mode outputs
- Support two calibration methods: debugger and button; Optional two point and three point calibration modes
- Extremely low temperature fluctuation, suitable for use in industrial environments with temperatures ranging from -30 to 80 degrees Celsius
- Very flexible switch point setting, automatic recognition of control direction, and automatic insertion of return difference
- Excellent anti-interference characteristics.

OVERVIEW

The main functions of the PW222 pressure switch measurement and control transmission product include 4-20mA transmission output, two-way relay switching output, and on-site display function. Adopting SMT technology and integrated design concept, the sensor can provide constant voltage excitation, constant current excitation, and adapt to diffusion silicon, ceramics, and strain type pressure sensors Its built-in microprocessor can realize the adjustable setting of zero point, full range, Decimal separator and control point and current setting without any Potentiometer adjustment through three key programming. The entire machine is suitable for industrial temperature environments and has strong anti-interference capabilities.

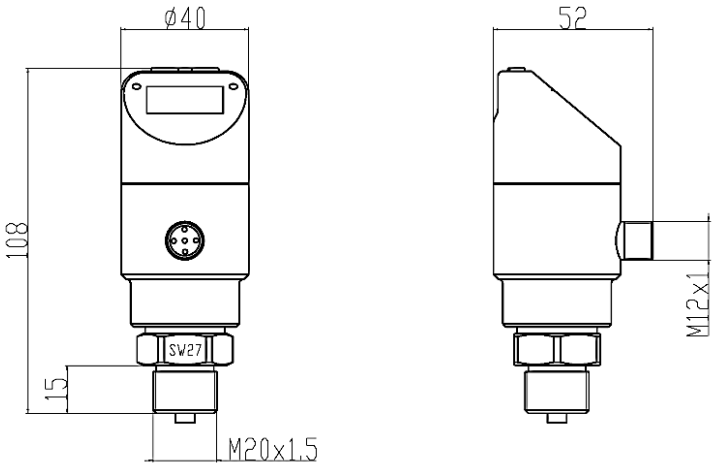
SPECIFICATION

Measurement range	-100kPa... 0-100kPa... 100MPa
Overload	1.5 times full scale pressure
Pressure type	gauge pressure, absolute pressure or sealed gauge pressure
Display method	OLED screen
Response time	<5ms
Working temperature	-30 °C~+80 °C
Comprehensive accuracy	≤ ± 0.5% FS
Display accuracy	± 0.1% FS
Display range	-99999~99999
Long term stability	≤ ± 0.2% FS
Load capacity	<2A
Storage temperature	-40 °C~+85 °C
Power supply range	13-30VDC
Switch life	>1000000 times
Shell protection	IP65
Output signal	2 switch quantities PNP/NPN/relay, 1 analog quantity 4-20mA
Electrical connections	Aviation connector

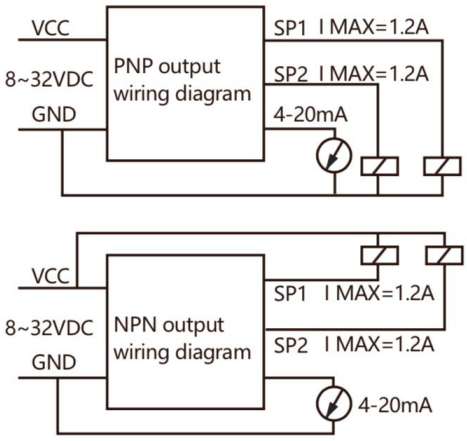
E-mail: info@cdsentec.com www.cdsentec.com

DIMENSION

Unit: mm

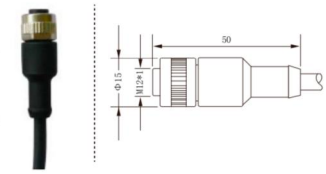
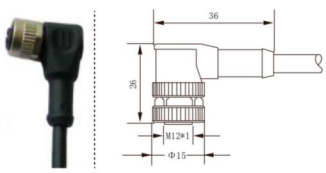


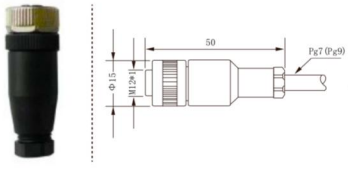
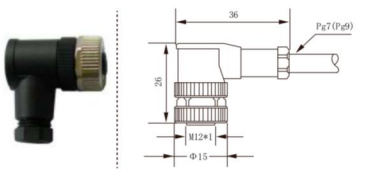
TYPICAL WIRING



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)			ZL05-PU010G
M12*1-5Pin (2m cable)		PVC	ZL05-PC02G
M12*1-5Pin (5m cable)			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)			ZL05-PU010W
		PVC	ZL05-PC02W
			ZL05-PC05W
			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

Code:	A	–	B	–	C	–	D	–	E	–	F	–	G
PW222	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