The selection is detailed on page 5



Model: PTD-200 0-2,5Mpa DC 24V

0.5%BFSL 4-20mA

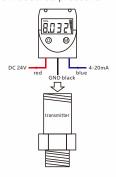
13369981625 173215770625

PTD-200

Ntelligent Digital Display Pressure Switch



When the pressure in the medium is higher or lower than the rated safety pressure, the disc in the sensor moves instantaneously, and the switch connector is switched on or off by connecting the guide rod. When the pressure drops to or to the rated recovery value, the disc is reset instantaneously, the switch is automatically reset, or simply when the measured pressure exceeds the rated value, the free end of the elastic element is displaced. Push the switch element directly or after comparison to change the on-off state of the switch element to achieve the purpose of controlling the measured pressure.



Product description

The PTD-200 pressure switch has an accuracy of up to 0.5% and can be freely configured with output signals (PNP/NPN, 4... 20mA/0... 10V), 5:1 scalable analog output, in addition to the PTD-200 also has excellent self-diagnosis function, can provide customers with excellent automation solutions. Flexible installation Flexible installation can be performed based on different installation environments.

There is no need to adjust the electrical interface when adjusting the display, and the display is always facing the operator. In addition, this type of pressure switch also has an M12*1 interface, which can be installed according to the cable routing requirements. During the development of the pressure switch range, Rodeweig has always adhered to the concept of rugged design and selected materials suitable for machine building applications. For this reason, the housing of the electronic pressure switch and the threaded joints of the electrical connectors are made of stainless steel, making it virtually impossible to overspin or tear the connectors.

Functional characteristics

Wide range coverage -0.1... 0 ~ 0.01... 100MPa

All stainless steel construction

There are various types of pressure interfaces

4 digit LED digital display

The output signals come in various forms Intelligent digital display, page friendly, high precision, high stability, high reliability

Reverse polarity protection and transient overcurrent and overvoltage protection

Product application

Hydraulic and flow hydraulics

Pneumatic device

Plastic injection molding machinery

General machinery manufacturing and plant construction

A vailable media: compressed air, neutral and self-lubricating liquids, and neutral gases



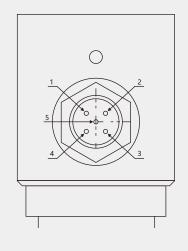


Technical parameter

Pressure parameter							
range	-10~0.01100MPa						
Over duty	Double full-scale pressure or 110MPa (whichever is the smallest)						
Pressure type	Gauge pressure, absolute pressure and sealed gauge pressure						
Electrical parameter							
Power supply	18V~30V DC						
Output signal	4mA~20mA DC/0~5V DC/0~10V DC						
	Relay: NO/NC						
	Transistor: NPN/PNP						
Structural parameter							
shell	stainless steel						
sensor	316l stainless steel						
Sealing ring	viton						
Electrical connection	M12*1 five-core plug						
Class of protection	IP65 (plug-in type)						
Environmental conditi	on						
Medium suitability	Various liquids that are non-corrosive to 316L stainless steel and fluororubber.						
Compensating temperature	-10℃~+80℃						
Operating temperature	-30°C∼+80°C						
Storage temperature	-40℃~+125℃						
Performance index							
precision	±0.1%FS (minimum) ±0.25%FS (typical) ±0.5%FS (maximum)						
Zero temperature coefficient	±0.03%FS/°C (≤100KPa) ±0.02%FS/°C (>100KPa)						
Temperature coefficient of full degree	±0.03%FS/°C (≤100KPa) ±0.02%FS/°C (>100KPa)						
Long-term stability	0.03% fs/year (maximum)						

Note: The accuracy includes three indexes, such as nonlinearity, repeatability and pressure hysteresis, and is calibrated on the 0.01% accuracy pressure detection equipment according to the requirements of relevant national standards.

electrical connection

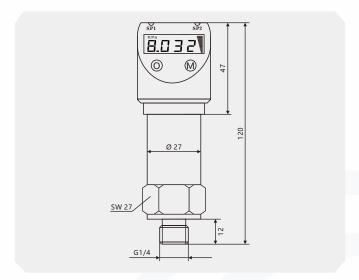


pin	Cable color	Electrical definition
1	brown	Power supply positive: +V
2	white	A1 alarm
3	blue	GND
4	black	A2 alarm
5	grey	Signal: +OUT

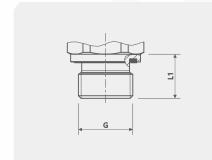


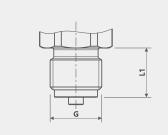


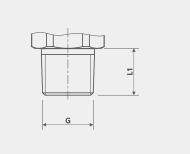
Size mm



Procedure linkage



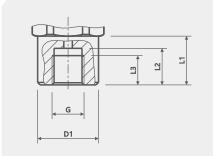


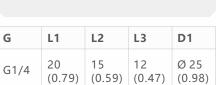


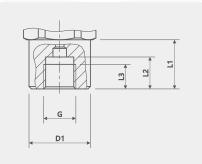
G	L1
G1/4 A DIN 3852-E	14 (0.55)
G1/2 A DIN 3852-E	17 (0.67)

G	L1
G1/4 B EN 837	13 (0.51)
G1/2 B EN 837	20 (0.79)

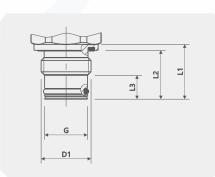
G	L1
1/4NPT	13 (0.51)
1/2NPT	19 (0.75)
R1/4	13 (0.51)
PT1/4	13 (0.51)







G	L1	L2	L3	D1
G1/4 EN837			10 (0.39)	Ø 25 (0.98)



G	L1	L2	L3	D1
G1/2B	23 (0.91)	20.5 (0.81)	12 (0.39)	Ø 18 (0.71)





Measuring range

Manometer pressure									
MPa	00.041)	00.061)	00.11)	01.61)	00.25	00.4	00.6	01	
	01.6	02.5	04	06	010	016	025	040	
	060	0100	-	-	-	-	-	-	
psi	0101)	0151)	0251)	0301)	050	0100	0160	0200	
	0300	0500	01,000	01,500	02,000	03,000	05,000	07,500	

Absolute pressure									
MPa	00.041)	00.061)	00.11)	00.161)	00.25	00.4	00.6	01	
	00.16	00.25	-	-	-	-	-	-	
	060	0100	-	-	-	-	-	-	
psi	0101)	0151)	0251)	030 ¹⁾	050	0100	0160	0200	
	0300	-	-	-	-	-	-	-	

Vacuum and+/-measuring range									
MPa	-0.10 ¹⁾	-0.1+0.06 ¹⁾	-0.1+0.15	0.1+0.3	-0.1+0.5	-0.1+0.9	-0.1+1.5	-0.1+2.4	
psi	-14.50 ¹⁾	-14.5+15 ¹⁾	-14.5+30	-14.5+50	-14.5+100	-14.5+160	-14.5+200	-14.5+300	

¹⁾ Not available for G $\frac{1}{2}$ Flat embedded diaphragm process connection

The specified measuring range can also be kg/cm and bar.

Special measuring ranges can be provided as required: 0...0.04 and 0 ... 100mpa (0 ... 10bis 0 ... 7,500psi).

Using special measuring range will reduce long-term stability and increase temperature error.

Overvoltage limit

The overvoltage limit is determined by the sensor element used. Depending on the selected process connection and sealing, the overpressure safety can be limited.

≤ 60 MPa (< 8,000 psi): 2 times > 100 MPa (≥ 8,000 psi): 1.5 times

Enhanced overvoltage safety (optional)

When choosing to enhance overvoltage safety, there will be deviations in temperature error, signal noise and long-term stability.





PTD200-Selection composition
Selection example PTD200 A G N S U A Z

1.Measuring range	Α	-10								
(MPa)	В	00.	1							
	С	025	-)							
	D	040)							
	Е	060)							
	F	010	.100							
2.Output	2.Output signal G 4-20mA									
H 1-5V DC				DC						
	I 0-5V DC									
J 0-10V DC				/DC						
3.0	3.Contact signal N Norm				ally ope	en				
	O Norm				nal close					
4.Liquid material S			S	304SS						
	L			L	316L					
		5.Pr	ocess co	nnection	М	G1/2				
					U	G1/4				
					V	M14*1	1.5			
					W	M20*	1.5			
					Χ	M27*	1.5			
					Υ	1/2NPT				
					Z	1/4NPT				
					T()	Other	specifi	ications		
6.Shell mat			Shell mo	aterial	Α	304S	S			
				В	316L					
						T()	Other	r materials		
				7.El	ectrical i	nterface	Z	M12*1		
							T()	Other electrical interfaces		
Instructions						L				

Instructions:

It indicates that the measuring range of PTD-200 digital pressure switch is -1...0MPa, the output signal is 4-20mA, the contact signal is normally open, the liquid contact material is 304 stainless steel, the screw interface is G1/4, the shell material is 304 stainless steel, and the electrical interface is M12*1.

Product Certification

Compliance and approval; Rodeweig pressure transmitters meet key standards and certifications for process measurement technology; Thus quaranteeing the highest reliability in such Settings;



