

Pressure Transmitter

Committed to process automation solutions

Datasheet



SUP-P300

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SUP-P300 Series pressure transmitter is kind of device based on pressure layer, which inside expert integrate circuit can transform sensor milli-volt signal to standard far distance transmission current signal, and it can be directly joined with computer joint clip, control instrument ,aptitude instrument or PLC etc. conveniently. The series' product is applied extensively in the professions, such as the industry process control, petroleum, chemical engineering and metallurgy etc. Carry the distance delivers and can adopt electric current exportation method.

Product advantage

- The physical volume small, the weight is ligh;
- Work in the causticity environment;
- That product installs the convenience simple and direct;

• The whole stainless steel seals completely the structure, have the very high anti- to flap to pound at the function with anti.

Principle

Pressure Transmitter are devices that convert the mechanical force of applied pressure into electrical energy. This electrical energy becomes a signal output that is linear and proportional to the applied pressure. And a transmitter sends signals in milliamps (mA). At present, various types of pressure sensors, such as diffused silicon, capacitive, silicon sapphire, ceramic thick film, metal strain electric type are widely used in various industries. SUP-P300 is diffused silicon type pressure transmitter.



Features

SUP-P300 pressure transmitter for general industrial applications is not only notable for its compact design, but it also offers excellent at an extremely competitive price. The modular design of the device allows combining a variety of process connections, pressure ranges and electrical connection variants, covering virtually all industrial application requirements.

Highlights

(1)DIN connector type (2)M12 connector type (3)Cable connector type

Fully welded pressure measuring cell with AISI 316L stainless steel diaphragm Accuracy, terminal based:0.5% temperature at zero point:±0.03%FS/°C Measuring range:-1...0-2...1000bar Ingress protection up to IP65



Applications

Oil industry paper industry chemical industry and so on.

Options and variants





P300G: Pressure transmitter PX300: Pressure transmitter P350: Hygienic Pressure Fins with cooling

with digital display





transmitter with flat film

P400: Pressure transmitter with Shell protection



Technical Data

The following data is provided for general applications. If you require data that is more relevant to your specific application, please contact us.

MEASURE SYSTEM:						
Application Range	Measurement of gauge and absolute pressure in gases and liquids					
Measuring Range	-10-21000bar					

TECHNICAL PERFORMANCE					
Pressure Type	Gauge pressure absolute pressure sealing pressure				
Power Supply	12VDC 24VDC 12-36VDC				
Signal Output	4-20mA 0-20mA 0-5V 1-5V 0-10V RS485				
Zero Drift	±0.03%FS°C				
Accuracy	±0.5%FS°C,0.3%FS optional				
Thermal Sensitivity Drift	±0.03%FS°C				
Long Term Stability	≤0.2%FS°C one year				
Frequency Response(-3dB)	5kHz~650kH				
Ingress Protection	IP65				
Pressure Connection	G1/4, G1/2,1/2NPT,1/4NPT, M20*1.5etc.(optional)				
Measure Medium	Gas, water, oil etc. (non-explosion-proof area)				
Electrical Connections	DIN connector type, M12 connector, cable connector type				
Time Response	<10ms				
Weight	Min, 400g (depending on model)				



MATERIALS:	
Housing	304/316L stainless steel
Fill Fluid	Silicon oil

WETTED PARTS:	
Pressure Port	Stainless steel 304 / AISI 316L
Separating Diaphragm	Stainless steel 304/ AISI 316L
Sealing	FKM(medium temperature≤+200°C/392°CF);EPDM; NBR

VOLTAGE SUPPLY:								
Output Signal	Power Supply Standard	Option						
4-20 mA	12VDC	12-36VDC						
0-20 mA	24VDC	12-36VDC						
DC 0-5V	24VDC	12-36VDC						
DC 1-5V	24VDC	12-36VDC						
DC 0-10V	24VDC	12-36VDC						



OUTPUT SIGNAL:					
Signal Type	Signal				
Current(2-wire)	4-20mA				
Voltage(3-wire)	0-5V 1-5V 0-10V				

OPERATING CONDITIONS:					
Temperature	-20+80°C/-4+176°F				
Nominal Temperature	-40+85°C/-40+185°F				
Ambient Temperature	-40+100°C/-40+212°F				
Storage Temperature	PN≤40 bar /580 psi: -40…+125°C/-40…+257°F				
	PN≥60 bar /870 psi: -25…+125°C/-13…+257°F				
Medium Temperature	With cooling fins (optional) :				
	PN≤40 bar /580 psi: -40…+125°C/-40…+257°F				
	PN≤40 bar /580 psi: -40…+125°C/-40…+257°F				



SIZE CHART:









CONNECTOR TYPE:





C8

PROCESS CONNECTION:

Thread	M20 $ imes$ 1.5	G1/2	M14 imes 1.5	G1/4	
Size chart unit: mm	527 527 527 527 527 527 527 527 527 527		27 27 10 10 10 10 10 10 10 10 10 10 10 10 10		
No.	C1	C2	C3	C4	
Thread	G1/4内	NPT1/2	NPT1/4	PT1/4	
Size chart unit: mm	27 27 59 19 19 19 19 19 19 19 19 19 1	61 NPT1/2	LC 27 LC 27 LC LC L	27 27 28 28 29 19 1 21 27 27 27 27 27 27 27 27 27 27 27 27 27	

TERMINAL ASSIGNMENT:

No.



C6

Two-wire wiring diagram



Three-wire wiring diagram

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C5

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C7



Ordering Code

Model								Description			
	-	-	-	-	-	-	-	-	-	-	Description
SUP-P300											-
	PT1										Gauge pressure
Pressure type	PT2										Absolute pressure
	PT3										Sealed gauge pressure
Measuring ra	nge	R(XX - XX)									-0.1MPa0 - 10kPa60MPa
٨٠٠			J1								0.50%
ACC	uracy		J2								0.30%
				00							No analog output
				01							4 - 20mA output
Anal	log ou	tput		02							1 - 5V output
				O3							0 - 5V output
				ΟZ							Others
					D0						No communication output
Comm	unica	lion output			D1						RS485
						11					M20*1.5
12										G1/4	
13					13					G1/2	
Mounting thread I4				14					M14*1.5		
				15					NPT1/4		
						16					NPT1/2
						ΙZ					Others
							EI1				DIN connector
						EI3				Cable connector	
E	lectri		9				EI4				M12 connector
							EIZ				Others
	D							V1			24VDC
Power supply							V2			12VDC	
Ingress Protection						•	IP1		IP65		
							IP2		IP68		
Och la law with						CS2	2m (Standard)				
					CSXX	XX m (Custom length)					