

PS300 Series Smart Industry Pressure Switch



Characters:

- ☆ Accuracy: ≤±0.5%F.S.
- ☆ High stability and reliability
- ☆ Pressure interface can rotate 330 °
- ☆ Digital calibration system
- ☆ 4 Bits LED display pressure value
- \doteqdot Analog output (4~20 mA) or RS485 digital output
- ☆ 2 channels switch output, load capacity of 1.2 A
- ☆ presupposed pressure switch point and Switch point action delay function
- ☆ Equipped with node action leds, convenient for observation
- ☆ Key adjustment and the scene setting various parameters, easy to operate

1. Profiles:



Applications:

- \precsim Hydraulic pressure controller
- \precsim Industrial automation control
- \And Tank Liquid Level Control
- \cancel{x} Petrochemical industry
- \precsim Water conservancy
- \Leftrightarrow Pressure meter
- \Leftrightarrow Laboratory equipment
- \cancel{T} Real-time management well
- \therefore Automatic detection system
- \cancel{a} Gas pressure measurement
- $\stackrel{\scriptscriptstyle \wedge}{\asymp}$ And so on

PS300 series intelligent pressure switch is an intelligent digital pressure measurement and control products, which with pressure measurement, display, output and control integrated. This product is a full electronic structure, use isolated silicon oil filled diaphragm as sensing components, the output signal is composed of high precision, low drift amplifier processing, signal send into the high precision A/D converter, the digital signals into the microprocessor can processing and through processing the signal can control two channels switch, which is monitoring and control of the pressure control system. The intelligent digital pressure switch is flexible to use, simple operation, easy debugging, safe and reliable. Widely used in hydropower, tap water, petroleum, chemical, mechanical, hydraulic and other industries, the fluid medium pressure measurement display and control.

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2. Specifications:

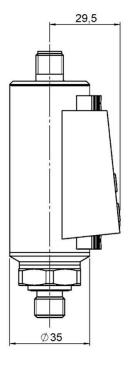
Model: Parameter:	PS300S/ PS300M/PS300A1/PS300R					
Pressure Range:	-1 Bar-1 Bar; 0-0.1 Bar1000 Bar / 0-2 Psi…15000 Psi Optional					
Pressure Type:	Gauge pressure; Absolute pressure; Sealed gauge pressure optional.					
Safe Overload:	150% F.S.					
Burst Pressure:	300% F.S.					
Accuracy:						
(Linearity Hysteresis	≤ ±0.5%F.S					
Repeatability)	Including non-lin., rep. and hys. Optional					
Display Units Accuracy:	≤ ±0.1%F.S					
Display Units Span:	-1999~9999					
Total Error Band:	050 °C max. ±0.5 %FS					
	-1070 °C max. ±1.0 %FS					
Long Stability:	Standard: 0.1%F.S±0.05%					
Working/Storage Temp:	-20 ℃ ~80 ℃					
Tempe Compensation:	10° c_{1} c_{2} $c_{$					
Medium compatible:	Compatible with 316 Stainless Steel or 1Cr18Ni9Ti stainless steel					
Output:	Two switches output;					
	One switch with 4~20mA or RS485 as output signal;					
	Two switches with 4~20mA or RS485 as output signal					
	optional					
Power Supply:	12~32V DC					
Switch type:	PNP, NPN optional					
Load Resistance:	<24Vdc 1.2A					
Max power	<1w					
consumption:						
Zero Temp. Drift:	0.03%FS/℃ (≤100kPa), 0.02%FS/℃ (>100kPa)					
Body materials:	304 stainless steel; 1Cr18Ni9Ti stainless steel optional					
Material of diaphragm:	316L Stainless steel					
Filling oil:	Silicon oil; Fluorocarbon oil (Oxygen Services)					
Electronic connection:	Plug: M12 (4-poles) Type IP65; M12*1-5P; DIN43650 optional					
Mechanical vibration:	±20g					
Pressure	G1/4"male, G1/2"male, 1/8"NPT male, 1/4"NPT male, 1/2"NPT male and female					
connect port:	optional. (by customized)					
Dimension:	See below drawing					
Water Proof:	IP65					
Response time:	≤5ms					
Endurance:	≥1 million cycles, 0…100 %FS at 25℃					

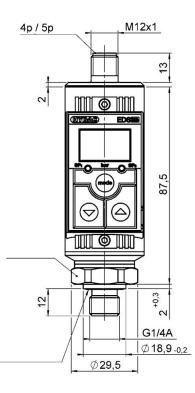
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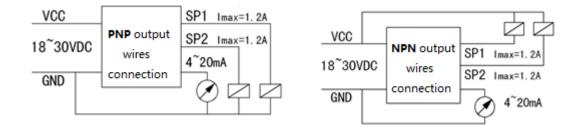


3. Dimension and Drawing:





4. Electronic Connections:



PS300S	PS300M	PS300A1	PS300R
Hirschman terminal box IP65	M12*1 -4P	M12*1 -5P	6 Pins Connectors
1:VCC	1:VCC (brown)	1:VCC (brown)	1:VCC (red)
2:GND	2:SP2 (white)	2:SP2 (white)	2:GND (yellow)
3:SP1	3:GND (blue)	3:GND (blue)	3:SP1 (brown)
4:SP2	4:SP1 (black)	4:SP1 (black)	4:SP2 (orange)
		5:4~20mA (gray)	5:RS485A (blue)
			6:RS485B (green)

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5. Part Number Selection Table:

			Smart Inc	dustry Elec	ctronic Pre	essure Sw	itches				
PS300S			DI	N43650 Hii	rschman Te	erminal Bo	x Type IP6	5			
PS300M				Ν	/12*1 -4P	Type IP65					
PS300A1				Ν	/12*1 -5P	Type IP65					
PS300R		6 Pins Connectors Type IP65									
	Range Code	Pressure range									
	001		01 Bar								
	002	02 Bar									
	010	010 Bar									
	015					015 B	ar				
	600		0600 Bar								
	XXX		By Customized								
		Code				Pres	sure type				
		G	G Gauge (relative pressure type)								
		А					te pressure				
		N	N Negative pressure								
			Code				ssure con	nection			
			8	M20x1.5 male 10 1/2" NPT male							
			6		G1/4" male 3			1/4" NPT male			
			9				By Customized				
				Code			Signal Output				
				S2		Two Channels Switch Output (4 wires) One Channel Switch and 4-20mA Output (4-5 wires)					
				SA							
				SR		o Channel	Channels Switch and RS485 Output (6 wires)				
					Code		Power Supply 24 V DC (Standard) 24V±20%				
					S3						
					Х	Carla					
						Code P	Switch Types PNP NDN				
						P N					
						IN	Code	NPN Code			
							Code Accuracy 1 ±0.5%F.S (Typical)		-		
							2 ±0.25%F.S (Customized)				
							2	Code	Cable Length		
								000	Non-Cable		
								005	5 Meters		
								XXX	By Customized		
PS300S	010	G	6	S2	S3	Р	1	002	Remarks		
	art Number: PS3						•	002	. tornando		

Example Part Number: PS300S010G6S2S3P1002

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