

## Pressure switch series PP

Ex-proof according UL or ATEX (EEx d)  
 One or two independent setpoints  
 Accuracy:  $\pm 1\%$



### Features

- Setpoint adjustment separated from electrical system
- Easy setpoint adjustment, with setpoint indication
- $\text{Ex}$  II 2 GD
- Protection IP66 or NEMA 7 and 9
- Wetted parts available in several materials
- High proof pressure

### Ranges

75 mbar up to 210 bar  
 30 in. H<sub>2</sub>O up to 3000 psi

### Applications

Chemical and petrochemical industry  
 Machine and apparatus construction  
 Food and beverage industry  
 Pulp and paper industry

Technical specification	PP		
	PPA	PPD	PPS
Type	Explosion proof according UL, CSA or CENELEC (ATEX)		
Construction	Separate chambers for setpoint/deadband adjustment and electrical connections, with setpoint indicators		
Switch (setpoint) functions	One single setpoint	Two setpoints independently adjustable	One single setpoint
Deadband	Adjustable over 80 %	Fixed	Fixed
Measuring principle	Diaphragm-piston-cylinder-system		
Range	75 150 250 375		
Limits (pressure ranges)	1 2 4 7 14 28 42 70 140 210 -1/0 -1/1		
Proof pressure	1,4 17 35 69 165	1,5 to 4 bar 35 69	28 to 42 bar 70 to 210 bar 827
Burst pressure	2,4 28 69 103 207		207 1240
Pressure type	Gauge, vacuum and compound		
Process connection	$\frac{1}{4}$ NPT female, $\frac{1}{2}$ NPT male/ $\frac{1}{4}$ NPT female (standard for $\geq 70$ bar) $\frac{1}{2}$ NPT female, G $\frac{1}{2}$ B male, M20x1,5, others on request (metric connections with adapter)		
Connection location	Lower		
Material	Stainless steel 316 (1.4401), optional Monel		
Pressure connection	For mbar ranges steel epoxy coated standard, stainless steel on request		
Diaphragm	Buna N, Viton (max. 70 bar), Teflon, stainless steel 316 (1.4401) or Monel (stainless steel and Monel only from $\geq 1$ bar to $\leq 70$ bar)		
Housing	Aluminum, epoxy coated grey		
Accuracy	1 % F.S.		
<b>Electrical specification</b>			
Microswitch ratings	Up to max. 6 A 30 VDC respectively 22 A 250 VAC (see microswitch table)		
Ex-proof specification	UL Class 1 Div. 1 Gr. B, C and D EEx d IIB+H <sub>2</sub> T6 SIRA 03 ATEX 1470		
Electrical connection	$\frac{1}{4}$ NPT female, optional cable glands, $\frac{1}{2}$ NPT with reducer bushing, M20x1,5, others on request		
<b>General specification</b>			
Permissible			
Ambient temperature	-25 ... 60 °C		
Medium temperature	Buna N and Teflon -18 ... 65 °C, Viton -7 ... 150 °C, stainless steel and Monel -18 ... 150 °C		
Storage temperature	-40 ... 60 °C		
Effect	Max. 0,4 % / 10 K ref. 20 °C		
Protection according UL	NEMA 7 and 9		
Protection according EN 60 529/IEC 529	IP66		
CE-mark	Low voltage regulations: EN 61 010-1, EN 60 947-1		
Mounting	Standard stem, wall or 2" pipe mounting (TM)		
Weight mbar/bar in kg	3,0/3,2		
Accessories, options	Diaphragm seals, valves, adapters, NACE		

