

MINIATURE PRESSURE AND VACUUM SWITCHES

PSW-500 Series Vacuum to 800 psi

Starts at
\$88



See switch accessories on page H-47 for audible alarms and relay modules.

PSW-522, \$88, shown larger than actual size.

- ✓ External Pressure Scale and Pointer for Easy Setpoint Adjustments
- ✓ 5 A Model Switches with High Proof Pressures
- ✓ 1 A Gold-Plated Switches for TTL and Dry-Contact Closures
- ✓ Stainless Steel Construction

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)							
PRESSURE MODELS	PRICE	ADJUSTABLE RANGE (psig)		DEADBAND (psig)	REPEATABILITY (psi)	MAX SYSTEM PRESSURE (psi)*	SWITCH
		DECREASING	INCREASING				
PSW-521	\$88	0.8 to 28.5	1.6 to 30	0.8 to 1.3	±0.6	30	1 A
PSW-522	88	2.0 to 38.3	3.0 to 40	1.0 to 1.7	±1.0	50	1 A
PSW-523	88	3.0 to 96.5	4.5 to 100	1.5 to 3.5	±2.0	100	1 A
PSW-524	88	7.5 to 242.5	9.7 to 250	2.2 to 9.0	±5.0	250	1 A
PSW-525	88	15 to 485	20 to 500	5.0 to 21	±10	500	1 A
PSW-531	128	0.8 to 16.3	1.2 to 20	0.6 to 3.7	±0.8	3000	5 A
PSW-532	128	2.0 to 42.5	2.0 to 50	0.8 to 7.5	±2.0	3000	5 A
PSW-533	128	4.0 to 91	4.0 to 100	1.1 to 9.0	±4.0	5000	5 A
PSW-534	128	10 to 222	10 to 250	2.2 to 28	±10	5000	5 A
PSW-535	128	20 to 432	20 to 500	3.5 to 68	±20	5000	5 A
PSW-536	128	50 to 700	100 to 800	20 to 100	±40	5000	5 A
VACUUM MODELS	PRICE	ADJUSTABLE RANGE (inHg)		DEADBAND (inHg)	REPEATABILITY (inHg)	MAX SYSTEM PRESSURE (inHg vac/psig)*	SWITCH
		DECREASING	INCREASING				
PSW-541	\$88	1.6 to 27.0	2.7 to 28.2	1.3 to 2.7	±1.2	29.9/0	1 A
PSW-542	88	4.0 to 24.8	5.1 to 28.2	1.5 to 3.2	±2.0	29.9/0	1 A
PSW-543	88	6.0 to 21.5	8.4 to 28.2	2.0 to 7.3	±4.0	29.9/0	1 A
PSW-551	128	1.2 to 22.5	1.6 to 28.2	1.1 to 5.7	±1.6	29.9/3000	5 A
PSW-552	128	1.2 to 21.8	8.0 to 28.2	8.0 to 6.4	±8.0	29.9/5000	5 A

* Exceeding these values may cause a shift in the setpoint.

Comes with complete operator's manual.

Ordering Example: PSW-525, gage model switch for maximum system pressure of 500 psi, \$88.

ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
ME-1755	\$150	Reference Book: Practical Guide to Pressure Vessel Manufacturing



MINIATURE HIGH-PRESSURE SWITCHES

- ✓ 500 to 6000 psi
- ✓ 1 A and 5 A Switch Models
- ✓ Heavy-Duty Overpressure Protection

PSW-560 (1 A) AND PSW-570 (5 A) SERIES PERFORMANCE TABLE

MODEL	NOMINAL SETPOINT (psi)	DEADBAND 1 A/5 A	REPEATABILITY (±psi)
PSW-561	500	70/120	25
PSW-571	1000	80/130	50
	1500	90/145	75
	2000	100/160	100
	2500	110/180	125
PSW-562	600	113/186	45
PSW-572	1000	145/220	60
	1500	190/262	85
	2000	235/305	100
	2500	280/345	125
	3000	325/385	150
	3500	364/430	175
	4000	410/470	200
5000	410/470	250	
PSW-563	700	177/455	65
PSW-573	1000	210/620	75
	1500	247/730	85
	2000	300/820	100
	3000	315/980	150
	4000	340/1000	200
	5000	355/1110	250
	6000	375/1280	300

SPECIFICATIONS

Approvals: UL (1 A switches PSW-520 and PSW-540 Series only)

Process Temp: -55 to 105°C (-65 to 221°F) [2% setpoint shift can occur below -25°C (-13°F) or above 50°C (122°F)]

Cycling: Not to exceed 20 cycles/min

Warranty: 3 year/1 million cycles

Sensor: Piston (PSW-520 and PSW-540: diaphragm)

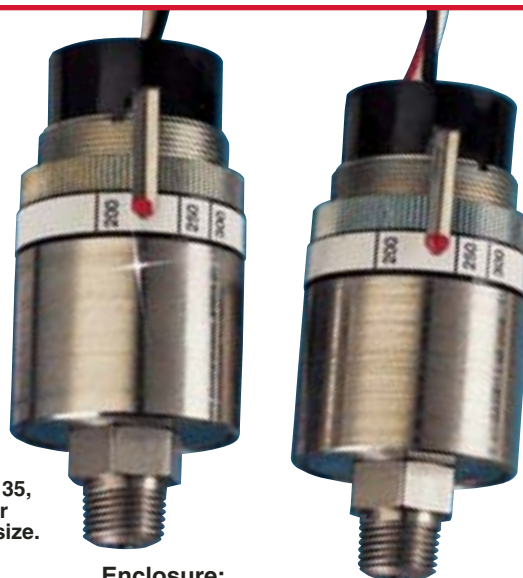
Proof Pressure: 150% max system pressure (PSW-530 and PSW-550: proof pressure is the max system pressure)

Wetted Parts:

PSW-520 and 540 Series: 17-7 PH SS, 303 SS and Loctite sealing compound #271

PSW-530 and 550 Series: 303 SS, 316 SS, Buna-N O-ring, Loctite #271

PSW-560 and 570 Series: 17-7 PH SS, 303 SS, Buna-N O-ring and Loctite #271



PSW-561, \$135, shown larger than actual size.

Enclosure:

Body: 303 SS

Internal Switch Housing and Lock Ring: Zinc alloy chromate finish

Cap: Black Valox®

Dimensions:

PSW-520 and PSW-540:

66 L x 28 mm Dia. (2.6 x 1.06")

PSW-560 and PSW-570:

71 L x 28 mm Dia. (2.8 x 1.10")

Pressure Port: 1/8-27 NPT

Electrical Connection: 20 AWG, 3 polyvinyl-insulated, unjacketed, 300 mm (12") pigtail leads

Wiring Code (Pressure):

Red = N/C

White = N/O

Black = Common

Wiring Code (Vacuum):

Red = N/O

White = N/C

Black = Common

Weight: 113 g (4 oz); PSW-520 and PSW-540 Series: 85 g (3 oz)

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

1 A MODEL	5 A MODEL	PRICE	ADJUSTABLE RANGE (psig)		MAX SYSTEM PRESSURE (psig)	PROOF PRESSURE (psig)
			DECREASING	INCREASING		
PSW-561	PSW-571	\$135	500 to 2390	500 to 2500	3000	4500
PSW-562	PSW-572	135	600 to 4500	600 to 5000	5000	7500
PSW-563	PSW-573	135	700 to 5500	700 to 6000	6000	9000

* Exceeding these values may cause a shift in the setpoint.

SWITCH RATING

MAX RATING	AC/DC	VOLTS RESISTIVE	AMPS	AMPS INDUCTIVE CONTACTS
1 A SPDT	115/28	1/1	1/0.5	Gold**
5 A SPDT	250/28	5/5	5/3	Silver

** Use gold contacts for dry and TTL circuitry (e.g., 5 Vdc @ 50 mA or less).

Caution: Pressure switches are manufactured to the highest-quality specifications. However, because of their economical construction, they should be used only for applications in which, in the event of product failure, the risk of damage to equipment or personnel is minimal.

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