

HEAVY-DUTY INDUSTRIAL SWITCHES

SINGLE OR DUAL SETPOINT, INTERNAL OR EXTERNAL ADJUSTMENT

30 inHg Vacuum to 3000 psi

See switch
accessories online
for audible alarms
and relay modules.

PSW-700 Series



- ✓ Division 1 Rating
- ✓ Single or Dual Setpoints, Tamper Resistant
- ✓ Heavy-Duty Enclosure
- ✓ Rated NEMA 4X, 7, 9 (IP66)
- ✓ Terminal Block Wiring
- ✓ High-Temperature Operation to 200°C (392°F) Process Temperature (Stainless Steel Model Only)

PSW-700 Series pressure switches are built for the rugged industrial setting. The internal setpoints allow adjustments while keeping the electrical component isolated from the environment. Both the internal and external setpoints have a range scale, allowing fast, easy setup.

SPECIFICATIONS

Approvals: UL listed; Class I, Division 1 and 2, Groups B, C and D; Class II, Groups E, F and G; Class III

Repeatability: ±1% range

Process Temperature:

Stainless Steel: -57 to 204°C (-70 to 400°F)

Brass: -40 to 149°C (-40 to 300°F)

Buna-N: -23 to 93°C (-10 to 200°F)

Ambient Temperature:

-50 to 71°C (-58 to 160°F), except for models 703 to 705, which are -18 to 71°C (0 to 160°F). Setpoint typically shifts less than 1% of range for a 28°C (50°F) ambient temperature change.

Shock: Setpoint repeats after 15 g, 10 ms duration

Vibration: Setpoint repeats after 2.5 g at 5 to 500 Hz

Output: 1 SPDT or 2 SPDT
15 A 125/250/480 Vac

Enclosure: Low copper-cast epoxy-coated aluminum

Electrical Connection: ¾ NPT conduit; internal screw terminals

Dimensions:

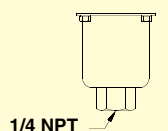
psi Ranges:

230 (max)
H x 125 W x 108 mm D
(9 x 4.9 x 4.3")

H₂O Ranges:

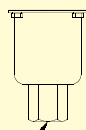
W and D = 153 mm (6")

Weight: Approx. 1.7 kg (4 lb)



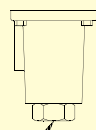
1/4 NPT

PSW-701, 711-714



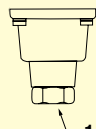
1/2 NPT

PSW-702-704, 708, 709

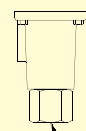


1/2 NPT

PSW-731-735



1/4 NPT (F)

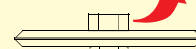


1/4 NPT

PSW-710, 715-717



PSW-722, ±10 inH₂O range, shown much smaller than actual size.



1/2 NPT

PSW-721-72

Dual external
setpoint
calibration
adjustment



INDUSTRIAL SWITCHES



PSW-707, 0 to 500 psi range, shown smaller than actual size

To Order

MODEL NO.	RANGE		DEADBAND STANDARD UNITS	PROOF PRESSURE	SWITCH	DIAL GRADUATION
	STANDARD	METRIC				
SINGLE SETPOINT, FIXED DEADBAND, WELDED 316L SS DIAPHRAGM, ½ FNPT PRESSURE CONNECTION						
PSW-721	-300 to 0 inH ₂ O	-747 to 0 mbar	0.2 to 15 inH ₂ O	100 psi	15 A SPDT	Blind adj
PSW-722	-10 to 10 inH ₂ O	-25 to 25 mbar	0.1 to 0.6 inH ₂ O	100 psi	15 A SPDT	Blind adj
PSW-723	-50 to 50 inH ₂ O	-125 to 125 mbar	0.1 to 3 inH ₂ O	100 psi	15 A SPDT	Blind adj
PSW-724	0.5 to 5 inH ₂ O	1.25 to 12.5 mbar	0.1 to 0.3 inH ₂ O	100 psi	15 A SPDT	Blind adj
PSW-725	2.5 to 50 inH ₂ O	6 to 125 mbar	0.1 to 0.8 inH ₂ O	100 psi	15 A SPDT	Blind adj
PSW-726	10 to 250 inH ₂ O	25 to 622 mbar	0.1 to 10 inH ₂ O	100 psi	15 A SPDT	Blind adj
PSW-731	5 to 30 psi	0.3 to 2.1 bar	1 to 6 psi	2500 psi	15 A SPDT	Blind adj
PSW-732	10 to 100 psi	0.7 to 7 bar	1 to 15 psi	2500 psi	15 A SPDT	Blind adj
PSW-733	15 to 300 psi	1 to 21 bar	3 to 25 psi	2500 psi	15 A SPDT	Blind adj
PSW-734	20 to 500 psi	1.4 to 34.5 bar	4 to 45 psi	2500 psi	15 A SPDT	Blind adj
PSW-735	80 to 1700 psi	5.5 to 117 bar	5 to 150 psi	2500 psi	15 A SPDT	Blind adj
DUAL SETPOINT, EXTERNAL CALIBRATED ADJUSTMENT, SEALED BRASS BELLOWS, ¼ FNPT NICKEL-PLATED BRASS PRESSURE CONNECTION						
PSW-701	30 inHg vac to 0 psi	1.02 to 0 bar	0.2 to 0.9 inHg	30 inHg	(2)15 A SPDT	0.5 inHg
PSW-711	30 inHg vac to 20 psi	-1 to 1.4 bar	0.2 to 1.2 inHg	25 psi	(2)15 A SPDT	1 inHg & 0.5 psi
PSW-712	0 to 30 psi	0 to 2 bar	0.1 to 0.6 psi	40 psi	(2)15 A SPDT	0.5 psi
PSW-713	0 to 100 psi	0 to 6.9 bar	0.2 to 0.8 psi	125 psi	(2)15 A SPDT	2 psi
PSW-714	0 to 200 psi	0 to 13.8 bar	0.3 to 2 psi	200 psi	(2)15 A SPDT	5 psi
DUAL SETPOINT, EXTERNAL CALIBRATED ADJUSTMENT, WELDED 316 SS BELLOWS, ½ FNPT PRESSURE CONNECTION						
PSW-702	0 to 20 psi	0 to 1.4 bar	0.1 to 0.5	25 psi	(2)15 A SPDT	0.5 inHg
PSW-703	0 to 30 psi	0 to 2 bar	0.1 to 0.6	40 psi	(2)15 A SPDT	0.5 psi
PSW-704	0 to 100 psi	0 to 6.9 bar	0.2 to 0.8	125 psi	(2)15 A SPDT	2 psi
PSW-708	30 inHg vac to 20 psi	-1 to 1.4 bar	0.2 to 1.2 inHg	25 psi	(2)15 A SPDT	1 inHg & 0.5 psi
PSW-709	0 to 200 psi	0 to 13.8 bar	0.3 to 2 psi	200 psi	(2)15 A SPDT	5 psi
DUAL SETPOINT, EXTERNAL CALIBRATED ADJUSTMENT, WELDED 316 SS BELLOWS, ¼ FNPT PRESSURE CONNECTION						
PSW-705	0 to 200 psi	0 to 13.8 bar	1.5 to 8	250 psi	(2)15 A SPDT	5 psi
PSW-706	0 to 300 psi	0 to 20.7 bar	2 to 9	350 psi	(2)15 A SPDT	10 psi
PSW-707	0 to 500 psi	0 to 34.5 bar	3 to 12	575 psi	(2)15 A SPDT	10 psi
DUAL SETPOINT, EXTERNAL CALIBRATED ADJUSTMENT, FIXED DEADBAND, BUNA-N O-RING, SS PISTON, ¼ FNPT 303 SS PRESSURE CONNECTION						
PSW-710	125 to 3000 psi	8.6 to 207 bar	40 to 250 psi	10,000 psi	(2)15 A SPDT	50 psi
DUAL SETPOINT, EXTERNAL CALIBRATED ADJUSTMENT, FIXED DEADBAND, BUNA-N DIAPHRAGM AND O-RING, ¼ FNPT NICKEL-PLATED PRESSURE CONNECTION						
PSW-715	30 to 300 psi	2 to 21 bar	2 to 7 psi	1000 psi	(2)15 A SPDT	10 psi
PSW-716	50 to 500 psi	3.5 to 34.5 bar	3 to 12 psi	2500 psi	(2)15 A SPDT	10 psi
PSW-717	200 to 1000 psi	13.8 to 69 bar	5 to 25 psi	2500 psi	(2)15 A SPDT	25 psi

Comes complete with operator's manual.

Ordering Example: PSW-703-X6B, dual-setpoint 30 psi switch with welded SS diaphragm, specially cleaned for oxygen service.