

INDUSTRIAL PRESSURE SWITCHES FOR HARSH ENVIRONMENTS

Vacuum to 1700 psi

PSW-200 Series



- ✓ Rugged, One-Piece, Epoxy-Coated Aluminum Body
- ✓ Meets NEMA 4X (IP66) Classification
- ✓ UL Listed, cUL Certified
- ✓ Stainless Steel Nameplate
- ✓ Internal Reference Scale with Adjustment Lock
- ✓ Hermetically Sealed SPDT or DPDT Switch

SPECIFICATIONS

Approvals: UL listed, cUL certified

Storage Temperature:
-54 to 71°C (-65 to 160°F)

Ambient Temperature Limits:
-40 to 71°C (-40 to 160°F), except models PSW-234 to PSW-240 and PSW-221 to PSW-226: -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

Process Temperature:
Stainless Steel: -57 to 204°C (-70 to 400°F)
Phosphor Bronze: -40 to 149°C (-40 to 300°F)
Buna-N: -23 to 93°C (-10 to 200°F)

Shock: Setpoint repeats after 15 g, 10 ms duration

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

Enclosure Classification:
Complies with NEMA 4X (IP66)

Setpoint Repeatability: 1% of adjustable range, except models PSW-241 to PSW-245D: 1.5%

Switch Output: Hermetically sealed SPDT or DPDT switch can be wired "normally open" or "normally closed"

Electrical Output: 11 A, 125/250 Vac resistive

Enclosure: Die-cast aluminum, epoxy coated, gasketed

Weight: 0.7 to 2.7 kg (1.5 to 6 lb) (varies by model)

Electrical Connection: ½ NPT and (2) 22 mm (⅞") diameter knockouts



PSW-236, shown smaller than actual size.

Pressure Connection: ½ FNPT, or ¼ FNPT as noted in "To Order" chart

Dimensions:

psi Ranges:

214 max H x 101 W x 60 mm D (8.4 max x 4 x 2.3")

inH₂O Ranges: W and D = 152 mm (6")

To Order

MODEL NO.	ADJUSTABLE RANGE		DEADBAND FIXED 0 TO 100 % RANGE	PROOF PRESSURE	SWITCH	ADDED FEATURE
	STANDARD	METRIC				
BUNA-N DIAPHRAGM, O-RING, ¼ FNPT 304 SS PRESSURE CONNECTION						
PSW-234	3 to 20 psi	0.21 to 1.38 bar	1 to 4 psi	1000 psi	11 A SPDT	–
PSW-234D	3 to 20 psi	0.21 to 1.38 bar	3.8 psi typ.	1000 psi	11 A DPDT	DPDT SWITCH
PSW-236	3 to 100 psi	0.21 to 6.90 bar	2 to 12 psi	1000 psi	11 A SPDT	–
PSW-236D	3 to 100 psi	0.21 to 6.90 bar	11.3 psi typ.	1000 psi	11 A DPDT	DPDT SWITCH
PSW-238	15 to 500 psi	1.03 to 34.48 bar	15 to 60 psi	2500 psi	11 A SPDT	–
PSW-238D	15 to 500 psi	1.03 to 34.48 bar	26.3 psi typ.	2500 psi	11 A DPDT	DPDT SWITCH
PSW-240	100 to 1700 psi	6.90 to 117 bar	20 to 110 psi	2500 psi	11 A SPDT	–
PSW-240D	100 to 1700 psi	6.90 to 117 bar	93.8 psi typ.	2500 psi	11 A DPDT	DPDT SWITCH
PHOSPHOR-BRONZE BELLOWS, ¼ FNPT NICKEL-PLATED BRASS PRESSURE CONNECTION						
PSW-246D	30 inHg vac to 0	-1 to 0 bar	11.3 inHg vac typ.	30 psi	11 A DPDT	DPDT SWITCH

PRESSURE SWITCHES

PSW-241, psi range, shown smaller than actual size.



See switch accessories online for audible alarms and relay modules.

PRESSURE SWITCHES 

To Order

MODEL NO.	ADJUSTABLE RANGE		DEADBAND		PROOF PRESSURE	SWITCH	ADDED FEATURE
	STANDARD	METRIC	0 TO 75% RANGE	100% RANGE			
BUNA-N DIAPHRAGM, O-RING, ¼ FNPT 304 SS PRESSURE CONNECTION							
PSW-231	1 to 20 psi	0.07 to 1.38 bar	0.1 to 3 psi	–	500 psi	11 A SPDT	–
PSW-231D	1 to 20 psi	0.07 to 1.38 bar	3.8 psi typ.	–	500 psi	11 A DPDT	DPDT SWITCH
PSW-232	2 to 50 psi	0.14 to 3.45 bar	0.1 to 5 psi	–	500 psi	11 A SPDT	–
PSW-232D	2 to 50 psi	0.14 to 3.45 bar	5.3 psi typ.	–	500 psi	11 A DPDT	DPDT SWITCH
PSW-241	5 to 30 psi	0.34 to 2.07 bar	3 to 8 psi	10 psi	2500 psi	11 A SPDT	–
PSW-241D	5 to 30 psi	0.34 to 2.07 bar	9.8 psi typ.	–	2500 psi	11 A DPDT	DPDT SWITCH
PSW-242	10 to 100 psi	0.69 to 6.90 bar	3 to 30 psi	45 psi	2500 psi	11 A SPDT	–
PSW-242D	10 to 100 psi	0.69 to 6.90 bar	41.3 psi typ.	–	2500 psi	11 A DPDT	DPDT SWITCH
PSW-243	15 to 300 psi	1.03 to 20.69 bar	10 to 40 psi	60 psi	2500 psi	11 A SPDT	–
PSW-243D	15 to 300 psi	1.03 to 20.69 bar	52.5 psi typ.	–	2500 psi	11 A DPDT	DPDT SWITCH
PSW-244	20 to 500 psi	1.38 to 34.98 bar	15 to 45 psi	75 psi	2500 psi	11 A SPDT	–
PSW-244D	20 to 500 psi	1.38 to 34.98 bar	67.5 psi typ.	–	2500 psi	11 A DPDT	DPDT SWITCH
PSW-245D	80 to 1700 psi	5.50 to 117 bar	168.8 psi typ.	–	2500 psi	11 A DPDT	DPDT SWITCH
BUNA-N DIAPHRAGM, O-RING WITH ½ FNPT ALUMINUM PRESSURE CONNECTION							
PSW-221	300 vac to 0 inH ₂ O	-747.24 to 0 mbar	0.8 to 32 inH ₂ O	–	100 psi	11 A SPDT	–
PSW-221D	300 vac to 0 inH ₂ O	-747.24 to 0 mbar	36 inH ₂ O typ.	–	100 psi	11 A DPDT	DPDT SWITCH
PSW-222	10 vac to 10 inH ₂ O	-24.94 to 24.94 mbar	0.4 to 2.4 inH ₂ O	–	100 psi	11 A SPDT	–
PSW-222D	10 vac to 10 inH ₂ O	-24.94 to 24.94 mbar	2.7 inH ₂ O typ.	–	100 psi	11 A DPDT	DPDT SWITCH
PSW-223	50 vac to 50 inH ₂ O	-124.54 to 124.54 mbar	0.4 to 12 inH ₂ O	–	100 psi	11 A SPDT	–
PSW-223D	50 vac to 50 inH ₂ O	-124.54 to 124.54 mbar	13.5 inH ₂ O typ.	–	100 psi	11 A DPDT	DPDT SWITCH
PSW-224	0.5 to 5 inH ₂ O	1.25 to 12.45 mbar	0.4 to 1.2 inH ₂ O	–	100 psi	11 A SPDT	–
PSW-225	2.5 to 50 inH ₂ O	6.23 to 124.154 mbar	0.4 to 3.2 inH ₂ O	–	100 psi	11 A SPDT	–
PSW-225D	2.5 to 50 inH ₂ O	6.23 to 124.154 mbar	3.6 inH ₂ O typ.	–	100 psi	11 A DPDT	DPDT SWITCH
PSW-226	10 to 250 inH ₂ O	24.91 to 622.70 mbar	0.4 to 24 inH ₂ O	–	100 psi	11 A SPDT	–
PSW-226D	10 to 250 inH ₂ O	24.91 to 622.70 mbar	27 inH ₂ O typ.	–	100 psi	11 A DPDT	DPDT

Comes complete with operator's manual.

Important Note Regarding DPDT Switches: DPDT switches are manufactured so that contact transfer of both switches occurs at the same time for rising pressure setpoints. For falling pressure setpoints, a small amount of non-simultaneity in the switch outputs may be observed.

Note: Deadbands are fixed and non-adjustable and tend to increase linearly with increased setpoint.

Ordering Example: PSW-241, pressure switch 5 to 30 psi, stainless steel diaphragm, 3 to 8 psi deadband.