

# INDUSTRIAL PRESSURE SWITCHES FOR HARSH ENVIRONMENTS

TRODEKS®

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 (¾") 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")

**inH<sub>2</sub>O 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  
H

## 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 <sub>2</sub> O	-747.24 to 0 mbar	0.8 to 32 inH <sub>2</sub> O	—	100 psi	11 A SPDT	—
PSW-221D	300 vac to 0 inH <sub>2</sub> O	-747.24 to 0 mbar	36 inH <sub>2</sub> O typ.	—	100 psi	11 A DPDT	DPDT SWITCH
PSW-222	10 vac to 10 inH <sub>2</sub> O	-24.94 to 24.94 mbar	0.4 to 2.4 inH <sub>2</sub> O	—	100 psi	11 A SPDT	—
PSW-222D	10 vac to 10 inH <sub>2</sub> O	-24.94 to 24.94 mbar	2.7 inH <sub>2</sub> O typ.	—	100 psi	11 A DPDT	DPDT SWITCH
PSW-223	50 vac to 50 inH <sub>2</sub> O	-124.54 to 124.54 mbar	0.4 to 12 inH <sub>2</sub> O	—	100 psi	11 A SPDT	—
PSW-223D	50 vac to 50 inH <sub>2</sub> O	-124.54 to 124.54 mbar	13.5 inH <sub>2</sub> O typ.	—	100 psi	11 A DPDT	DPDT SWITCH
PSW-224	0.5 to 5 inH <sub>2</sub> O	1.25 to 12.45 mbar	0.4 to 1.2 inH <sub>2</sub> O	—	100 psi	11 A SPDT	—
PSW-225	2.5 to 50 inH <sub>2</sub> O	6.23 to 124.154 mbar	0.4 to 3.2 inH <sub>2</sub> O	—	100 psi	11 A SPDT	—
PSW-225D	2.5 to 50 inH <sub>2</sub> O	6.23 to 124.154 mbar	3.6 inH <sub>2</sub> O typ.	—	100 psi	11 A DPDT	DPDT SWITCH
PSW-226	10 to 250 inH <sub>2</sub> O	24.91 to 622.70 mbar	0.4 to 24 inH <sub>2</sub> O	—	100 psi	11 A SPDT	—
PSW-226D	10 to 250 inH <sub>2</sub> O	24.91 to 622.70 mbar	27 inH <sub>2</sub> O typ.	—	100 psi	11 A DPDT	DPDT SWITCH

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.