

# GENERAL PURPOSE CONTROLS WITH CHOICE OF DUAL OR TRIPLE SWITCHES

30 inHg Vacuum to 3000 psi

## PSW-850 Series



- ✓ 2- or 3-Switch Outputs—  
Can be Separated Up to  
100% of Range
- ✓ Adjustable Pressure  
Ranges
- ✓ NEMA 1 Enclosure

The PSW-850 is a simple, economical control for processes that require multiple switching capabilities. Dual or triple switch controls provide multi-outputs in applications such as alarm and shutdown, pre-alarm and alarm, high/low limit, and level staging functions.

Triple-switch models have been used for liquid level control. In this application, 3 pressure settings correspond to “pumping out” elevations in a sump pump.

### SPECIFICATIONS

**Approvals:** UL, CE compliant

**Storage Temperature:** -54 to 71°C  
(-67 to 158°F)

**Ambient Temperature:** -40 to 70°C  
(-40 to 160°F), except model  
PSW-852A: -40 to 70°C (0 to 160°F);  
setpoint typically shifts less than 1%  
of range for a 30°C (54°F) ambient  
temperature change

**Setpoint Repeatability:** ±2% of  
adjustable range, except model  
PSW-852E: ±3% of adjustable range

**Shock:** Setpoint repeats after 15 g,  
10 ms duration

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

**Enclosure:** Die-cast aluminum, epoxy  
powder coated, gasketed, captive  
cover screws

See switch  
accessories online  
for audible alarms  
and relay modules.

**Enclosure Dimensions:**  
102 H x 125 W x 140 mm D  
(4 x 4.9 x 5.5"); 210 mm (8.25")  
maximum height with pressure port

**Enclosure Classification:** Complies  
with NEMA 1 requirements

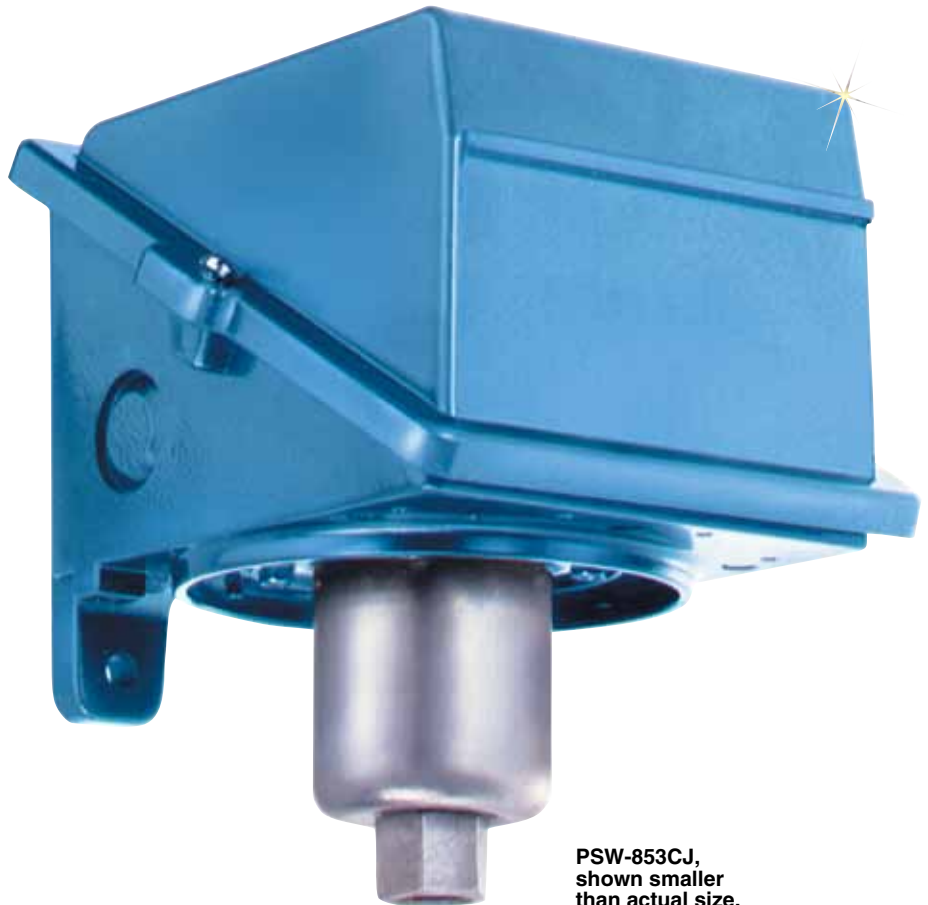
**Switch Output:** 2 or 3 SPDT;  
switches can be separated up to  
100%, except models PSW-852A  
and PSW-852B: 30%; switches  
can be wired “normally open” or  
“normally closed”

**Electrical Rating:** 15 A  
125/250/480 Vac resistive

**Weight:** Approx. 1.4 to 3.4 kg  
(3 to 7.5 lb) (varies with model)

**Electrical Connection:** Three 22 mm  
( $\frac{7}{8}$ " diameter knockouts

**Pressure Connection:**  $\frac{1}{4}$  FNPT  
except model PSW-852A:  $\frac{1}{2}$  FNPT



PSW-853CJ,  
shown smaller  
than actual size.

# GENERAL PURPOSE CONTROLS WITH CHOICE OF DUAL OR TRIPLE SWITCHES

## To Order

MODEL NO.	RANGE		DEADBAND STANDARD UNITS	PROOF PRESSURE	SWITCH
	STANDARD	METRIC			
<b>DUAL SETPOINTS, FIXED DEADBAND, BUNA-N DIAPHRAGM, O-RING, 1/2 FNPT ALUMINUM PRESSURE CONNECTION</b>					
PSW-852AA	-300 to 0 inH <sub>2</sub> O	-747 to 0 mbar	0.2 to 8 inH <sub>2</sub> O	100 psi	(2)15 A SPDT
PSW-852AB	-10 to 10 inH <sub>2</sub> O	-25 to 25 mbar	0.1 to 0.6 inH <sub>2</sub> O	100 psi	(2)15 A SPDT
PSW-852AC	-50 to 50 inH <sub>2</sub> O	-125 to 125 mbar	0.1 to 3 inH <sub>2</sub> O	100 psi	(2)15 A SPDT
PSW-852AD	0.5 to 5 inH <sub>2</sub> O	1.25 to 12.5 mbar	0.1 to 0.3 inH <sub>2</sub> O	100 psi	(2)15 A SPDT
PSW-852AE	2.5 to 50 inH <sub>2</sub> O	6 to 125 mbar	0.1 to 0.8 inH <sub>2</sub> O	100 psi	(2)15 A SPDT
PSW-852AF	10 to 250 inH <sub>2</sub> O	25 to 622 mbar	0.1 to 8 inH <sub>2</sub> O	100 psi	(2)15 A SPDT
<b>DUAL SETPOINTS, FIXED DEADBAND, 316 SS DIAPHRAGM, FKM O-RING, 1/4 FNPT 316L SS PRESSURE CONNECTION</b>					
PSW-852BI	0 to 20 psi	0 to 1.4 bar	0.2 to 4 psi	225 psi	(2)15 A SPDT
PSW-852BK	0 to 50 psi	0 to 3.4 bar	0.7 to 6 psi	225 psi	(2)15 A SPDT
PSW-852BL	0 to 100 psi	0 to 6.9 bar	1 to 7 psi	225 psi	(2)15 A SPDT
<b>DUAL SETPOINTS, FIXED DEADBAND, SEALED BRASS BELLOWS, 1/4 FNPT NICKEL-PLATED BRASS PRESSURE CONNECTION</b>					
PSW-852CH	30 inHg vac to 20 psi	-1 to 1.4 bar	0.4 to 2.4 inHg	25 psi	(2)15 A SPDT
PSW-852CG	0 to 80 inH <sub>2</sub> O	0 to 200 mbar	4 to 12 inH <sub>2</sub> O	5 psi	(2)15 A SPDT
PSW-852CJ	0 to 30 psi	0 to 2 bar	0.2 to 1.2 psi	40 psi	(2)15 A SPDT
PSW-852CL	0 to 100 psi	0 to 6.9 bar	0.4 to 1.6 psi	125 psi	(2)15 A SPDT
PSW-852CM	0 to 200 psi	0 to 13.7 bar	0.6 to 4 psi	200 psi	(2)15 A SPDT
<b>DUAL SETPOINTS, FIXED DEADBAND, WELDED 316L SS BELLOWS, 1/4 FNPT PRESSURE CONNECTION</b>					
PSW-852DN	0 to 500 psi	0 to 34.5 bar	6 to 18 psi	575 psi	(2)15 A SPDT
<b>DUAL SETPOINTS, FIXED DEADBAND, 303 SS PISTON, BUNA-N O-RING, 1/4 FNPT 303 SS PRESSURE CONNECTION</b>					
PSW-852EO	100 to 1000 psi	7 to 69 bar	60 to 300 psi	10,000 psi	(2)15 A SPDT
PSW-852EP	200 to 3000 psi	13.8 to 206 bar	80 to 500 psi	10,000 psi	(2)15 A SPDT
<b>DUAL SETPOINTS, REFERENCE ADJUSTMENT, FIXED DEADBAND, SEALED BRASS BELLOWS, 1/4 FNPT NICKEL-PLATED BRASS PRESSURE CONNECTION</b>					
PSW-855CH	30 inHg vac. to 20 psi	-1 to 1.4 bar	0.4 to 2.4 inHg	25 psi	(2)15 A SPDT
PSW-855CJ	0 to 30 psi	0 to 2 bar	0.2 to 1.2 psi	40 psi	(2)15 A SPDT
PSW-855CL	0 to 100 psi	0 to 6.9 bar	0.4 to 1.6 psi	125 psi	(2)15 A SPDT
PSW-855CM	0 to 200 psi	0 to 13.7 bar	0.6 to 4 psi	200 psi	(2)15 A SPDT
<b>DUAL SETPOINTS, REFERENCE ADJUSTMENT, FIXED DEADBAND, WELDED 316L SS BELLOWS, 1/4 FNPT 316L SS PRESSURE CONNECTION</b>					
PSW-855DN	0 to 500 psi	0 to 34 bar	6 to 18 psi	575 psi	(2)15 A SPDT
<b>THREE SETPOINTS, FIXED DEADBAND, SEALED BRASS BELLOWS, 1/4 FNPT NICKEL-PLATED BRASS PRESSURE CONNECTION</b>					
PSW-853CH	30 inHg vac. to 20 psi	-1 to 1.4 bar	0.4 to 2.4 inHg	25 psi	(3)15 A SPDT
PSW-853CJ	0 to 30 psi	0 to 2 bar	0.2 to 1.2 psi	40 psi	(3)15 A SPDT
PSW-853CL	0 to 100 psi	0 to 6.9 bar	0.4 to 1.6 psi	125 psi	(3)15 A SPDT
PSW-853CM	0 to 200 psi	0 to 13.7 bar	0.6 to 4 psi	200 psi	(3)15 A SPDT
<b>THREE SETPOINTS, FIXED DEADBAND, WELDED 316L SS BELLOWS, 1/4 FNPT 316L SS PRESSURE CONNECTION</b>					
PSW-853DN	0 to 500 psi	0 to 34.5 bar	6 to 8 psi	575 psi	(3)15 A SPDT
<b>THREE SETPOINTS, REFERENCE ADJUSTMENT, FIXED DEADBAND, SEALED BRASS BELLOWS, 1/4 FNPT NICKEL-PLATED BRASS PRESSURE CONNECTION</b>					
PSW-856CH	30 inHg vac to 20 psi	-1 to 1.4 bar	0.4 to 2.4 inHg	25 psi	(3)15 A SPDT
PSW-856CJ	0 to 30 psi	0 to 2 bar	0.2 to 1.2 psi	40 psi	(3)15 A SPDT
PSW-856CL	0 to 100 psi	0 to 6.9 bar	0.4 to 1.6 psi	125 psi	(3)15 A SPDT
PSW-856CM	0 to 200 psi	0 to 13.7 bar	0.6 to 4 psi	200 psi	(3)15 A SPDT
<b>THREE SETPOINTS, FIXED DEADBAND, WELDED 316L SS BELLOWS, 1/4 FNPT 316L SS PRESSURE CONNECTION</b>					
PSW-856DN	0 to 500 psi	0 to 34.5 bar	6 to 8 psi	575 psi	(3)15 A SPDT

Comes complete with operator's manual.

Ordering Example: PSW-856CJ, control switch with 3 setpoints, reference dial, sealed brass bellows, 1/4 FNPT fitting and range of 0 to 30 psi.