

# ELECTRONIC PRESSURE SWITCHES

## INTEGRAL DISPLAY AND SOLID STATE OUTPUTS

### PSW2000 Series



For Ordering  
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### PSW2000 Series

- ✓ Dual Outputs:  
Two SSRs or SSR and Analog Output
- ✓ 3-Digit 10 mm Red LED Display
- ✓ 10-Bit A/D Resolution

The PSW2000 high performance pressure switch features 304 SS wetted parts with a piezoresistive pressure sensor. It has 0.5% full scale accuracy, solid state switch output(s), and is easy to program, with 3 pushbuttons.

#### SPECIFICATIONS

**Accuracy:** 0.5% full scale  
**Linearity Error:**  $\pm 0.5\%$  full scale at 25°C (77°F)  
**Repeatability:**  $\pm 0.1\%$  full scale  
**Sensor:** Piezoresistive measuring sensor  
**Material**  
**Wetted Parts:** 304 stainless steel  
**Seal:** FKM (fluorelastomer)  
**Process Connection:** 1/4-18 NPT; 7/16-20 SAE or G1/4 metric thread also available, consult engineering  
**Electrical Connection:** M12x1 plug 4-pin  
**Power Supply:** 15 to 28 Vdc @ 50 mA

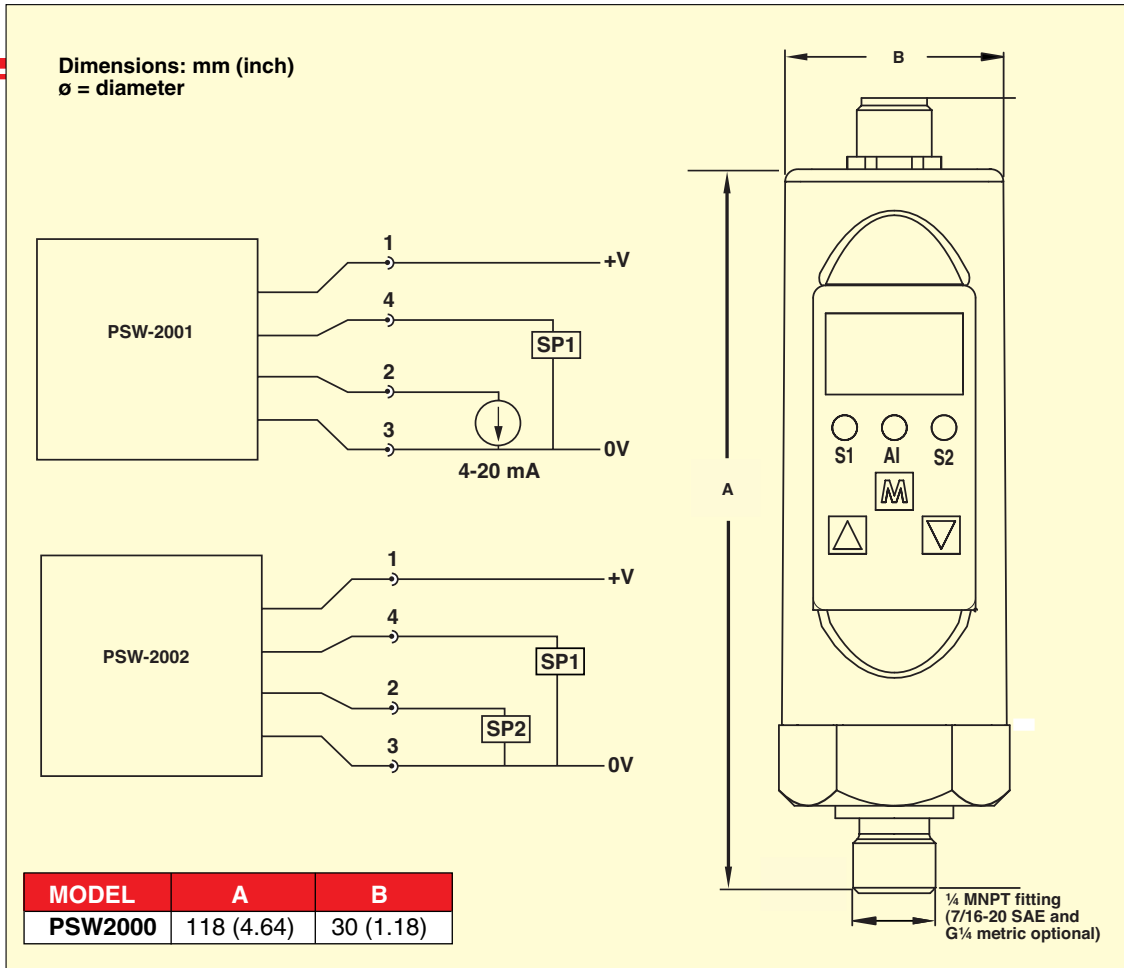
**A/D Converter Resolution:** 10 bit (1024 steps per measure span)  
**Scanning Rate:** 100/s (for peak value memory)  
**Analog Output (Optional, PSW2000):**  
**Current Output:** 4 to 20 mA  
**Load**  
**Max RI:** (12V)/20 mA; RI: 600  $\Omega$  at 24 Vdc  
**Load Influence:** 0.3%/100  $\Omega$   
**Voltage Output (Optional):** 0 to 10 Vdc  
**Rating:** Max 10 mA, short circuit-proof  
**Adjustment:** 0 to 125% full scale  
**Solid State Switch Outputs:** One standard; second output either switch or analog signal  
**Adjustment Range:** 0 to 125% full scale  
**Hysteresis:** 0 to 125% full scale  
**Delay:** 0.0 to 9.9 seconds-adjustable  
**Contact Rating:** 500 mA maximum, short circuit protected  
**Status Displays:** Green LED, S1 and S2  
**Digital Display**  
**Display Height:** Red 3-digit 7-segment LED, 10 mm (0.39")  
**Display Range:** -1 to 999  
**Display Rate:** 20/s  
**Error Display:** Red/orange LED, AL; main display message  
**Operation:** 3 pushbutton keypad

PSW2002-750,  
with PSW2000-CONN  
optional DIN  
connector, shown  
actual size.



**Temperature Range:**  
**Media:** -25 to 100°C (-13 to 212°F)  
**Electronics:** -10 to 70°C (14 to 158°F)  
**Storage:** -30 to 80°C (-22 to 178°F)  
**Temperature Influence:**  $\pm 0.2\%$  FS/10 K  
**Protection Class:** NEMA 4, IP65  
**Compensation Range:** -10 to 70°C (14 to 158°F)  
**Weight:** 200 g (0.4 lb)

# ELECTRONIC PRESSURE SWITCHES WITH INTEGRAL DISPLAY AND SOLID STATE OUTPUTS



PSW2002-750, with PSW2000-CONN optional DIN connector, shown smaller than actual size.

PSW2001 SINGLE SWITCH AND ANALOG OUTPUT	PSW2002 DUAL SWITCHES NO ANALOG OUTPUT	RANGE	
		STANDARD	METRIC
<b>ABSOLUTE PRESSURE RANGES-1/4 NPT FITTING</b>			
PSW2001-15A	PSW2002-15A	0 to 15 psia	0 to 1 bar ABS
PSW2001-75A	PSW2002-75A	0 to 75 psia	0 to 5 bar ABS
PSW2001-150A	PSW2002-150A	0 to 150 psia	0 to 10 bar ABS
<b>GAGE PRESSURE RANGES-1/4 NPT FITTING</b>			
PSW2001-150	PSW2002-150	0 to 150 psig	0 to 10 bar
PSW2001-750	PSW2002-750	0 to 750 psig	0 to 50 bar
PSW2001-1.5K	PSW2002-1.5K	0 to 1500 psig	0 to 100 bar
PSW2001-3K	PSW2002-3K	0 to 3000 psig	0 to 200 bar
PSW2001-6K	PSW2002-6K	0 to 6000 psig	0 to 400 bar
PSW2001-9K	PSW2002-9K	0 to 9000 psig	0 to 600 bar

Comes complete with operator's manual.

To order with 7/16-20 SAE fitting add suffix "-S" to model number and consult sales for pricing.

To order with Metric G 1/4 fitting add suffix "-M" to model number and consult sales for pricing.

**Ordering Examples:** PSW2002-15A, pressure switch with 0 to 1 bar abs (0 to 15 psig) pressure range with dual switching capability and 1/4 MNPT male pressure connection.

PSW2001-750, pressure switch with 0 to 50 bar (0 to 750 psig) range with single switch capability and 1/4 MNPT male pressure connection.

## ACCESSORIES

MODEL NO.	DESCRIPTION
PSW2000-CONN	Mating M12 x 1, 4-pin connector for PSW2000 models