## PSW2000/1000 Series

PSW2000 Series
$\checkmark$ Dual Outputs: Two SSRs or SSR and Analog Output
$\checkmark$ 3-Digit 10 mm Red LED Display
$\checkmark$ 10-Bit A/D Resolution

## PSW1000 Series

- Three Outputs: Dual SSRs and Analog Output
- 4-Digit 5 mm Alphanumeric Green Display
- 12-Bit A/D Resolution

The PSW2000 and PSW1000 high performance pressure switches feature 304 SS wetted parts with a piezoresistive pressure sensor. Both units have $0.5 \%$ FS accuracy, solid state switch output(s), and are easy to program, with 3 pushbuttons.

## SPECIFICATIONS

Accuracy: 0.5\% FS
Linearity Error: $\pm 0.5 \%$ FS at $25^{\circ} \mathrm{C}\left(77^{\circ} \mathrm{F}\right)$
Repeatability: $\pm 0.1 \%$ FS
Sensor: Piezoresistive measuring sensor Material

Wetted Parts: 304 SS
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
PSW1000: 5-pin
PSW2000: 4-pin
Power Supply:
PSW1000: 15 to 28 Vdc @ 40 mA
PSW2000: 15 to 28 Vdc @ 50 mA

PSW2002-750, $\$ 380$, with PSW2000-CONN optional DIN connector, \$40, shown actual size.

## A/D Converter Resolution:

PSW1000: 12 bit (4096 steps per measure span)
PSW2000: 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
PSW1000: Two standard
PSW2000: One standard; second output either switch or analog signal
Adjustment Range: 0 to $125 \%$ FS


PSW1000-150-I with included DIN connector, \$570, shown actual size.

Hysteresis: 0 to $125 \%$ FS
Delay: 0.0 to 9.9 seconds-adjustable
Contact Rating
PSW1000: 400 mA max, short circuit protected
PSW2000: 500 mA max, short circuit protected
Status Displays: Green LED,
S1 and S2
Digital Display
Display Height:
PSW1000: Green 4-digit dot matrix, 5 mm (0.2"); adjustable brightness from 20 to 100\%
PSW2000: Red 3-digit 7-segment LED, 10 mm (0.39")

Display Range：
PSW1000：－999．9 to 999.9 or 9999 to 9999
PSW2000：－1 to 999
Display Rate：
PSW1000：5／s； 0.0 to 9.9 s adjustable delay
PSW2000：20／s
Error Display：Red／orange LED，
AL；main display message
Operation： 3 pushbutton keypad

Temperature Range：
Media：-25 to $100^{\circ} \mathrm{C}\left(-13\right.$ to $212^{\circ} \mathrm{F}$ ）
Electronics：-10 to $70^{\circ} \mathrm{C}$
（14 to $158^{\circ} \mathrm{F}$ ）
Storage：-30 to $80^{\circ} \mathrm{C}\left(-22\right.$ to $178^{\circ} \mathrm{F}$ ）
Temperature Influence：
$\pm 0.2 \%$ FS／ 10 K
Protection Class：NEMA 4，IP65
Compensation Range：
-10 to $70^{\circ} \mathrm{C}$（ 14 to $158^{\circ} \mathrm{F}$ ）
Weight：
PSW1000： 350 g （ 0.8 lb ）
PSW2000： $200 \mathrm{~g}(0.4 \mathrm{lb})$

Dimensions：mm（in）

| MODEL | A | B |
| :--- | :---: | :---: |
| PSW1000 | $132(5.125)$ | $32(1.25)$ |
| PSW2000 | $118(4.64)$ | $30(1.18)$ |

PSW2002－750，\＄380， with PSW2000－CONN optional DIN connector，\＄40， shown smaller than actual size．


MOST POPULAR MODELS HIGHLIGHTED!

## To Order (Specify Model Number)

PSW1000
PSW1002
RANGE
 ABSOLUTE PRESSURE RANGES-DUAL SOLID STATE SWITCHES AND ANALOG OUTPUT

| PSW1000-15A-I | $\$ 660$ | PSW1002-15A-I | $\$ 695$ | 0 to 15 psia | 0 to 1 bar ABS |
| :--- | ---: | :--- | ---: | ---: | :---: |
| PSW1000-75A-I | 660 | PSW1002-75A-I | 695 | 0 to 75 psia | 0 to 5 bar ABS |
| PSW1000-150A-I | $\mathbf{6 6 0}$ | PSW1002-150A-I | $\mathbf{6 9 5}$ | 0 to 150 psia | 0 to 10 bar ABS |

GAGE PRESSURE RANGES-DUAL SOLID STATE SWITCHES AND ANALOG OUTPUT

| PSW1000-150-I | $\$ 570$ | PSW1002-150-I | $\$ 605$ | 0 to 150 psig | 0 to 10 bar |
| :--- | ---: | :--- | ---: | :---: | :---: |
| PSW1000-750-I | 570 | PSW1002-750-I | 605 | 0 to 750 psig | 0 to 50 bar |
| PSW1000-1.5K-I | $\mathbf{5 7 0}$ | PSW1002-1.5K-I | $\mathbf{6 0 5}$ | 0 to 1500 psig | 0 to 100 bar |
| PSW1000-3K-I | $\mathbf{5 7 0}$ | PSW1002-3K-I | $\mathbf{6 0 5}$ | 0 to 3000 psig | 0 to 200 bar |
| PSW1000-6K-I | 570 | PSW1002-6K-I | $\mathbf{6 0 5}$ | 0 to 6000 psig | 0 to 400 bar |
| PSW1000-9K-I | $\mathbf{5 7 0}$ | PSW1002-9K-I | $\mathbf{6 0 5}$ | 0 to 9000 psig | 0 to 600 bar |

Comes complete with mating connector and operator's manual.
To order a unit with a 0 to 10 Vdc output instead of a 4 to 20 mA output, change the " -I " at the end of the model number to "-V", and add $\$ 51$ to price.
Ordering Examples: PSW1002-150-I, dual pressure switch, 4 to 20 mA output with 0 to 150 psig (0 to 10 bar) range and a $7 / 16-20$ SAE process connection, \$605.
PSW1000-6K-I, dual pressure switch, 4 to 20 mA output with 0 to 400 bar (0 to 6000 psi) and $1 / 4 \mathrm{MNPT}$ fitting, $\mathbf{\$ 5 7 0}$.

| PSW2001 <br> SINGLE SWITCH AND <br> ANALOG OUTPUT | PRICE | PSW2002 <br> DUAL SWITCHES <br> NO ANALOG OUTPUT | PRICE | RANGE |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | STANDARD | METRIC |
| ABSOLUTE PRESSURE RANGES-1/4 NPT FITTING |  |  |  |  |  |
| PSW2001-15A | \$475 | PSW2002-15A | \$465 | 0 to 15 psia | 0 to 1 bar ABS |
| PSW2001-75A | 475 | PSW2002-75A | 465 | 0 to 75 psia | 0 to 5 bar ABS |
| PSW2001-150A | 475 | PSW2002-150A | 465 | 0 to 150 psia | 0 to 10 bar ABS |
| GAGE PRESSURE RANGES-1/4 NPT FITTING |  |  |  |  |  |
| PSW2001-150 | \$390 | PSW2002-150 | \$380 | 0 to 150 psig | 0 to 10 bar |
| PSW2001-750 | 390 | PSW2002-750 | 380 | 0 to 750 psig | 0 to 50 bar |
| PSW2001-1.5K | 390 | PSW2002-1.5K | 380 | 0 to 1500 psig | 0 to 100 bar |
| PSW2001-3K | 390 | PSW2002-3K | 380 | 0 to 3000 psig | 0 to 200 bar |
| PSW2001-6K | 390 | PSW2002-6K | 380 | 0 to 6000 psig | 0 to 400 bar |
| PSW2001-9K | 390 | PSW2002-9K | 380 | 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 \$6 to price.
To order with Metric G¼ fitting add suffix "-M" to model number and subtract $\mathbf{\$ 2 1}$ from price.
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, $\$ 465$.
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, $\$ 390$.

## ACCESSORIES

| MODEL NO. | PRICE | DESCRIPTION |
| :--- | ---: | :--- |
| PSW1000-CONN | $\mathbf{\$ 2 0}$ | Spare M12 x 1, 5-pin connector for PSW1000 models |
| PSW2000-CONN | $\mathbf{4 0}$ | Mating M12 x 1, 4-pin connector for PSW2000 models |

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