

MULTI OUTPUT ELECTRONIC PRESSURE SWITCH

TRODEKS®

PSW3000 Series



- ✓ 4 Switching Outputs Plus 1 Analog Output
- ✓ High Accuracy with Adjustable Deadband Individually Settable
- ✓ Easy to Read LCD with Scalable Bar Graph
- ✓ Capable of Switching Both AC and DC
- ✓ Fully Configurable Via Keypad
- ✓ Internal Stainless Steel Diaphragm

Applications

- ✓ OEM Applications in Hydraulics and Pneumatics
- ✓ Test Bench
- ✓ Industrial Machinery

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 Element: Piezoresistive silicon measuring cell

Wetted Parts:

Housing: 304 stainless steel

Seals: Cast aluminum, FKM

Keypad: Polyester Film

Process Connection: 1/4 FNPT, G 1/4 F optional

Electrical Connection: Plug-in, terminal strip with 14 slots for 14 AWG



PSW3000-150, shown actual size.

Power Supply: 18 to 32 Vdc, reversed polarity protected

A/D Converter:

Resolution: 12 bit (4096 steps per span)

Scanning Rate: 1000/sec

Time Constant: Approx 40 sec

Analog Output

Current Output: 4 to 20 mA

Load: Maximum $RI = 600 \Omega$ at 24 Vdc excitation

Load Influence: 0.3%/100 Ω

Scanning Rate: 1 msec

Voltage Output: 0 to 10 Vdc

Rating: Maximum 10 mA, short circuit-proof

Adjustment Range: 25 to 100% full scale

Switching Outputs

Switching Function:

Normally open/normally closed, analog output, standard/windows mode

Contact Rating: Maximum 120 Vdc/250 Vac, max 12 W/1250 VA

Cycles: 1 million @ 24 Vdc/2 A

Switching Rate: Maximum 20/s

Delay: 0.0 to 9.9 sec adjustable

Operation Time: 1 msec

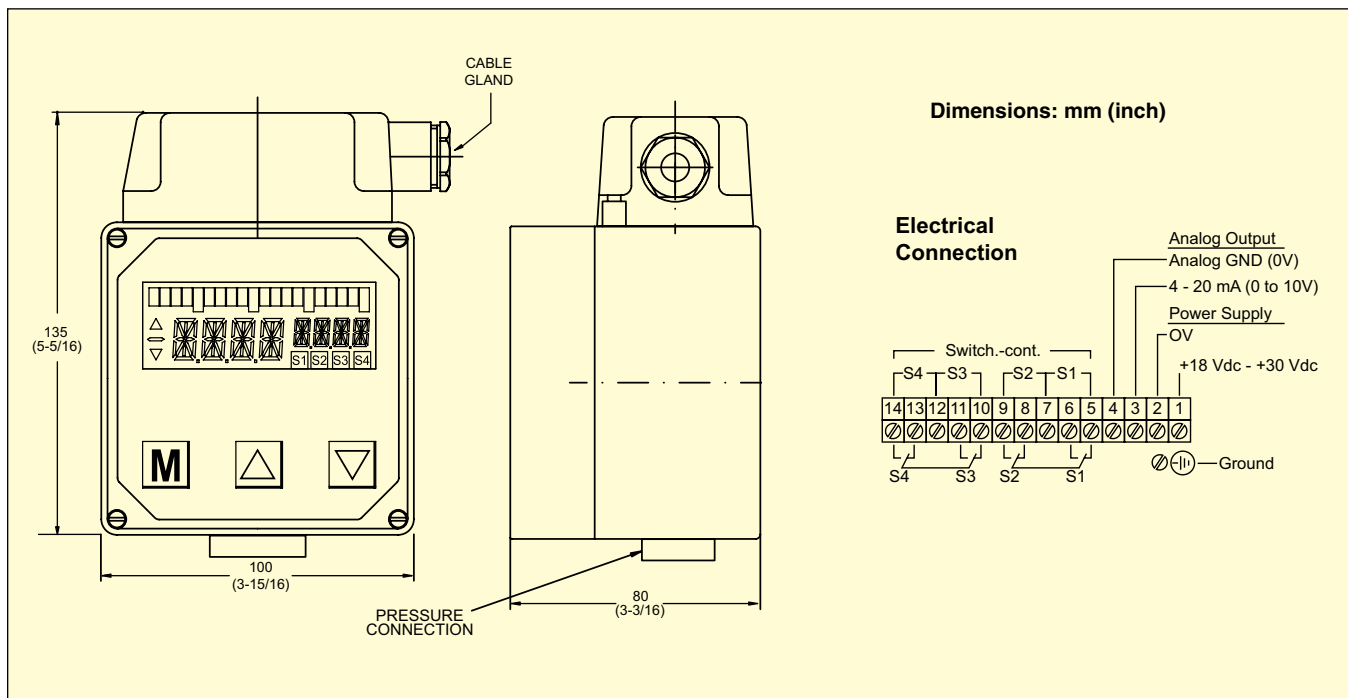
Status Display: S1 to S4 on LCD

Digital Display

Display Height: Green, 8-digit, 14-segment LCD, 12.7 mm (0.5")

Bargraph: 20-segments

MULTI OUTPUT ELECTRONIC PRESSURE SWITCH



Trend Arrows: Last value change

Display Range: -9999 to 9999

Display Rate: 4 per sec

Display Units: Bar, psi, psi x 10, hPa, mbar

Operating Elements: Keypad with easy response push buttons

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 176°F)

Compensated Temperature Range:

-10 to 70°C (14 to 158°F)

Power Consumption: Approx 350 mA @ 24 Vdc (without load)

Protection Class: IP65

Dimensions: 100 W x 135 H x 80 mm D (3.9 x 5.3 x 3.1")

Cable Gland: 1 x PG 13.5 side entry

Additional Features: Microcontroller, self monitoring, all parameters are configured by keypad, selective keypad lock

Weight: Approx 32 oz (2 lb)

To Order

| MODEL NO. | STANDARD | METRIC |
|---|----------------|--------------|
| FOUR SWITCHES, ¼ FNPT FITTING | | |
| PSW3000-150 | 0 to 150 psig | 0 to 10 bar |
| PSW3000-750 | 0 to 750 psig | 0 to 50 bar |
| PSW3000-1.5K | 0 to 1500 psig | 0 to 100 bar |
| PSW3000-3K | 0 to 3000 psig | 0 to 200 bar |
| PSW3000-6K | 0 to 6000 psig | 0 to 400 bar |
| PSW3000-9K | 0 to 9000 psig | 0 to 600 bar |
| FOUR SWITCHES PLUS 4 to 20 mA ANALOG OUTPUT, ¼ FNPT FITTING | | |
| PSW3000-150-I | 0 to 150 psig | 0 to 10 bar |
| PSW3000-750-I | 0 to 750 psig | 0 to 50 bar |
| PSW3000-1.5K-I | 0 to 1500 psig | 0 to 100 bar |
| PSW3000-3K-I | 0 to 3000 psig | 0 to 200 bar |
| PSW3000-6K-I | 0 to 6000 psig | 0 to 400 bar |
| PSW3000-9K-I | 0 to 9000 psig | 0 to 600 bar |
| FOUR SWITCHES PLUS 0 to 10 Vdc ANALOG OUTPUT, ¼ FNPT FITTING | | |
| PSW3000-150-V | 0 to 150 psig | 0 to 10 bar |
| PSW3000-750-V | 0 to 750 psig | 0 to 50 bar |
| PSW3000-1.5K-V | 0 to 1500 psig | 0 to 100 bar |
| PSW3000-3K-V | 0 to 3000 psig | 0 to 200 bar |
| PSW3000-6K-V | 0 to 6000 psig | 0 to 400 bar |
| PSW3000-9K-V | 0 to 9000 psig | 0 to 600 bar |

Comes complete with connector and operator's manual.

To order switch with G ¼ female metric pressure fitting change model number from PSW3000 to PSW3001. No additional charge for metric fitting.

Ordering Examples: PSW3000-150-I, pressure switch, 0 to 10 bar (0 to 150 psig) pressure range, 4 switching outputs and 4 to 20 mA analog output.

PSW3000-3K-V, pressure switch, 0 to 200 bar (0 to 3000 psig) pressure range, 4 switching output and 0 to 10 Vdc analog output.