PSW-800 Series
Pressure Switches
Operator's Manual: M1475/0802

GENERAL

The OMEGA PSW-800 Series pressure switches are rugged economical switches with models for vacuum on up to 7500 PSIG. Part numbers and ranges information is outlined in the "MODEL NUMBER INFORMATION" section below.

PSW-800 Pressure switches feature high overpressure protection which allows sensitive, accurate switching at low pressures, while still having the ruggedness to survive in high pressure applications.

UNPACKING

Remove the packing list and verify that all equipment has been received. If there are any questions about the shipment, please call OMEGA Customer Service Department at 1-800-622-2378 or (203) 359-1660. Upon receipt of the shipment, inspect the container and equipment for any signs of damage. Take particular note of any evidence of rough handling in transit. Immediately report any damage to the shipping agent.

NOTE:
The carrier will not honor any claims unless all shipping material is saved for their examination. After examining and removing contents, save packing material and carton in the event reshipment is necessary.

PRESSURE SWITCH ADJUSTMENT

A change in setpoint is made by first loosening the locking set screw and then turning the external adjustment sleeve. Turning the sleeve counterclockwise will lower the setpoint. Turning the sleeve clockwise will raise the setpoint. For best results after setting the switch, cycle the system pressure level several times to stabilize the new setpoint then repeat the adjustment if necessary. After completing the adjustment tighten the locking set screws.

SPECIFICATIONS

Temp. Range: -20 to 165°F (500 PSI and below)
-40 to 165°F (600 PSI and above)

Wetted Parts: (See "When Pressure is Increasing" rating)
500 PSI and below
   Body: Brass
   Diaphragm: Buna-N

600 PSI and above
   Body: Brass
   Seals: Buna-N "O" ring
   Piston: Stainless Steel

Electrical Connection: 12" free leads with 1/2" female plastic conduit fitting

Pressure Connection: 1/4" NPT male

Contact Rating: 5 amp max @ 125/250 Vac
## Model Number Information

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<th>Pressure Setting Range</th>
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<th>When Pressure is Increasing</th>
<th>Dead Band Range</th>
<th>Proof Pressure*</th>
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<td>Min</td>
<td>Max</td>
<td>Min</td>
<td>Max</td>
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<tr>
<td>VACUUM MODELS (In.Hg.)</td>
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<td></td>
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<tr>
<td>PSW-801</td>
<td>1&quot; Hg</td>
<td>28&quot; Hg</td>
<td>6&quot; Hg</td>
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<td>1 to 6&quot; Hg</td>
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<td>PRESSURE MODELS (PSIG)</td>
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<td>PSW-811</td>
<td>3850</td>
<td>6700</td>
<td>4700</td>
<td>7500</td>
<td>350 to 800</td>
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</tbody>
</table>

* Maximum pressure without damaging unit.

### Wiring

All PSW-800 Series switches utilize a SPDT switch rated for 5 amps at 250 Vac maximum. Connections are made via the three 12 inch long color coded lead wires. Color coding for the lead wires is as follows:

- **Vacuum Models (PSW-801)**
  - Common: Purple
  - Normally Open: Blue
  - Normally Closed: Red

- **Pressure Models (PSW-802 - PSW-811)**
  - Common: Purple
  - Normally Open: Red
  - Normally Closed: Blue

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**Omega Engineering, Inc.** warrants this unit to be free of defects in material and workmanship for a period of 13 months from date of purchase. OMEGA's WARRANTY applies an additional one (1) month grace period to the nominal one (1) year product warranty to cover handling and shipping time. This ensures that OMEGA customers receive maximum coverage on each product.

If the units malfunction, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (ARR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any addition to the product, including but not limited to mishandling, improper interfacing, operation outside of specifications, improper power input, or unauthorized modification. This WARRANTY is void if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive current, or current, heat, moisture or vibrations, improper installation, misapplication, misuse, or other operating conditions outside of OMEGA's control. Components which were not warranted, including but not limited to contact points, fuses, and relays are not covered.

OMEGA offers a 30-day money-back guarantee on any new product, new or reconditioned. OMEGA will accept returns for full credit within 30 days of receipt. For returns after 30 days, a 20% restocking fee will be charged. For returns made within 30 days, all returns must be received in new and unused condition.

**Service Europe:**

- Freiburg 80613, LA Amsterdam, Netherlands
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  - Toll Free: 800-1-60342
- e-mail: servicerelations@omega.com

**Warranty Disclaimer:**

This warranty is void if any unauthorized third party is present, or in any case where no warranty is available or if any applicable warranty is not available.

**For Warranty Return:**

1. Purchase Order number or under which the product was PURCHASED.
2. Model and serial number of the product under warranty.
3. Return the product to Omega Engineering, Inc.

OMEGA Engineering, Inc. reserves the right to discontinue or change any information at any time. OMEGA will provide the customer with the latest information available.