OPS
Over-Pressure Switch

USA

CAN

Job Name: _____

Installer: _____

Installation Date: _____

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EXHAUSTO
VENTING DESIGN SOLUTIONS

1. Product Information

1.1 Function

Use The OPS, Over-Pressure Switch, is an adjustable differential pressure switch that is used in conjunction with EXHAUSTO MODS, Modulating Over-Draft Damper Systems. It is used for over-pressure protection, so if excessive pressure builds up between the boiler outlet and the system damper, the switch will shut down the heating appliance, while the EBC 30 control unit drives the damper completely open to relieve the pressure.

Construction The switch housing and the internal switch are made of polycarbonate. The diaphragm is made of NBR (silicone), while the switching contact is made in fine silver.

Listings The Honeywell switch is CE approved according to low-voltage directive EEC 73/23.

1.2 Components

Standard packing list The OPS shipment contains:

- 1 OPS Differential Pressure Switch
- Duct Kit consisting of stack probe with mounting flange and 6 ft silicone tubing

If other components are shipped, these will appear as separate items on the shipping packing list.

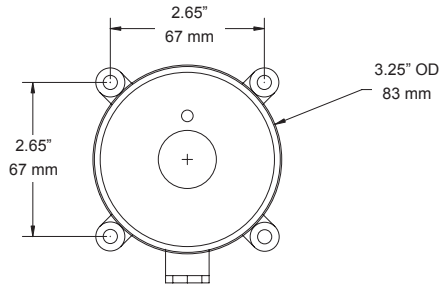
1.3 Warranty

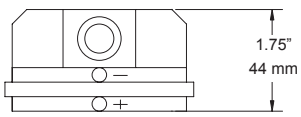
Complete warranty conditions are available from EXHAUSTO, Inc.

2. Specifications

2.1 Dimensions & Capacities

Maximum Load	1.5 Amps @ 120-240 V AC
Range of Operation	.08 to .60"W.C. (20 to 200 Pa)
Temperature Limits	-5°F to +185°F (-20 to +85°C)
Max. Pressure	1.4 PSI (100 mbar)
Conduit Connection	1/4" Solderless Quick Connect Terminals
Pressure Connections	Two plastic tubes, outside diameter of 1/4" (6.0mm)
Weight	4.9 oz. (0.14kg)





3. Mechanical Installation

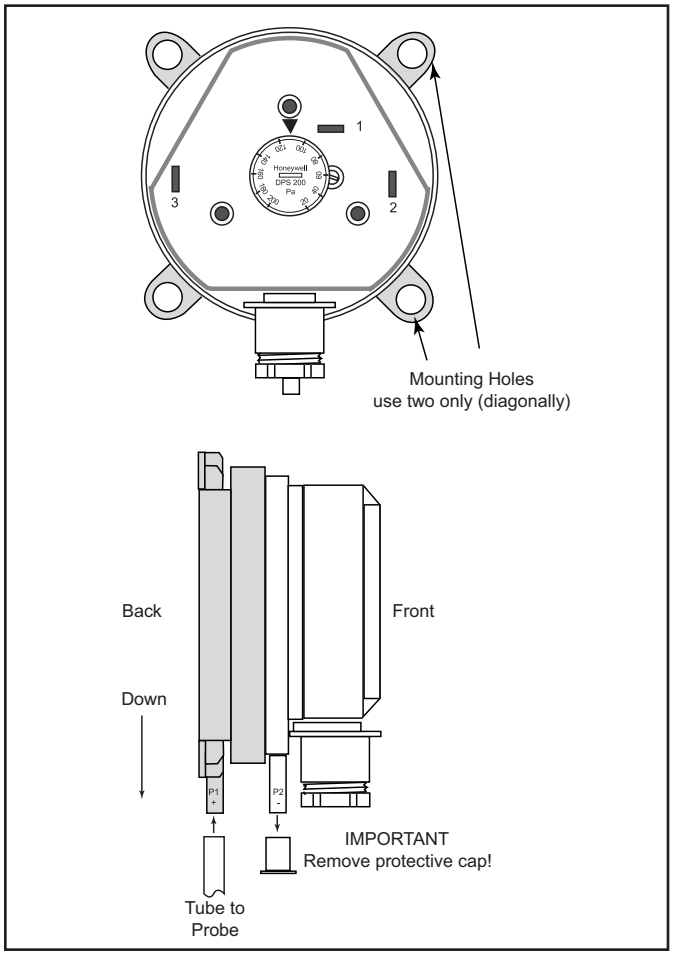
3.1 Installation of Over-Pressure Switch (OPS)

The OPS must be installed in a vertical position with the pressure connection pointing down.

Secure the switch by using the mounting holes as shown on the figure. Use only two holes preferably diagonally from each other.

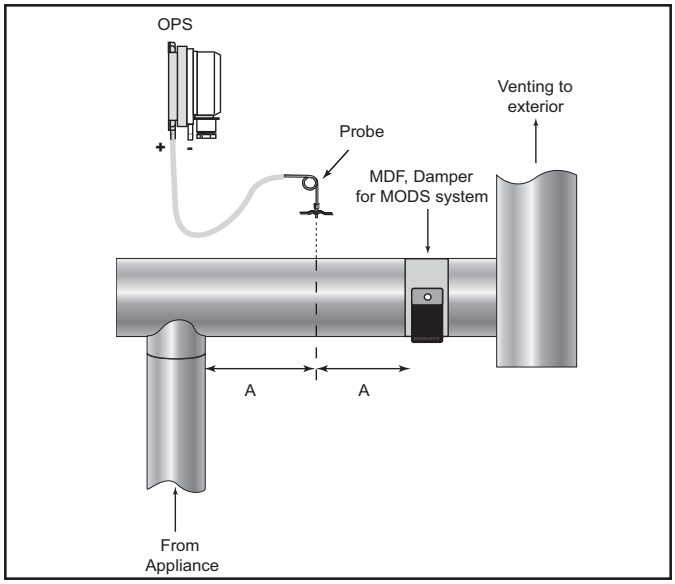
After installation connect the tubing to the probe onto the port marked “P1” and “+”.

IMPORTANT! REMOVE THE PROTECTIVE CAB ON THE PORT MARKED “P2” AND “-”. THE SWITCH WILL NOT WORK PROPERLY UNLESS IT HAS BEEN REMOVED.



3.2 Installation of Stack Probe for OPS

Install the probe for the OPS in the stack between the boiler outlet and the damper. The probe must be located so the distance “A” is at least 3 vent diameters downstream damper. The probe placement should also observe distances from elbows and Tees as shown in figure to the right. The tip of the probe MUST be flush with the inner stack wall to get a proper pressure reading.

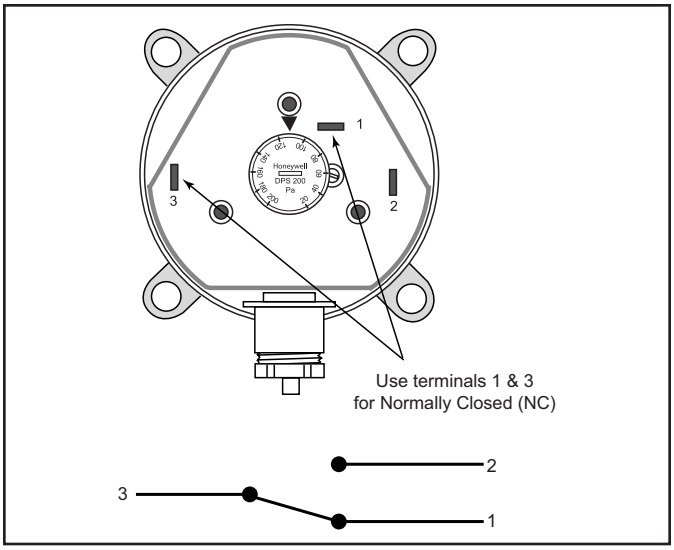


4. Electrical Installation

4.1 Wiring the OPS

The OPS must be wired in a Normally Closed (NC) position when used with a MODS system.

Make sure to observe the electrical rating of the switch as shown on page 2.



5. Start Up and Configuration

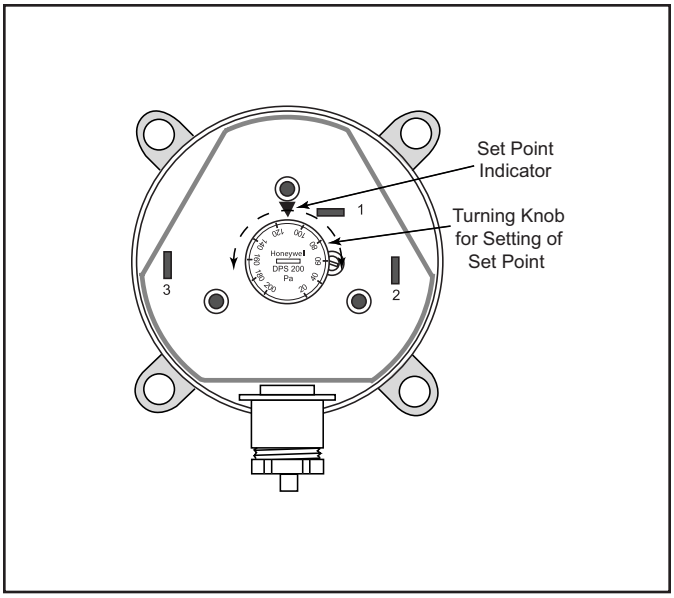
5.1 Adjusting the Pressure Setting

The pressure setting can be adjusted using the dial.

Adjust set-point above normal start-up and transition pressures to avoid nuissance trips.

NOTE: On applications where a positive pressure is being maintained, a delay timer should be installed to avoid nuissance trips.

CAUTION: DO NOT MAKE ANY ADJUSTMENTS TO THE CALIBRATION SCREW LOCATED NEXT TO THE DIAL.



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