

# ENGINEERING DATA



## Model P-Sensor

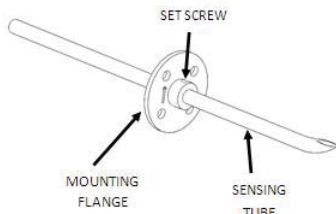
### P-Sensor Make-up Air Pressure Sensor

Part No. 46676500



#### ITEMS INCLUDED IN KIT

- Adjustable Pressure Switch (differential type, may install upstream or downstream of fan)
- Sensing Probe Kit, with Sensing Tube and 3' of clear vinyl air tubing



#### DESCRIPTION

The P-Sensor Makeup Air Sensor is intended for use as an accessory to the HHSC+ Ventilation Control and FAD fresh air damper system, and/or optional E-Sensor Enthalpy Damper Control or T-Sensor Temperature Damper Control. The P-Sensor senses a change in air pressure within the exhaust duct of an exhausting device such as a kitchen range hood, clothes dryer, central exhaust system etc., and sends a signal to a makeup air system, such as the HHSC or HHSC+ ventilation system, in order to provide makeup air for the exhausting device.

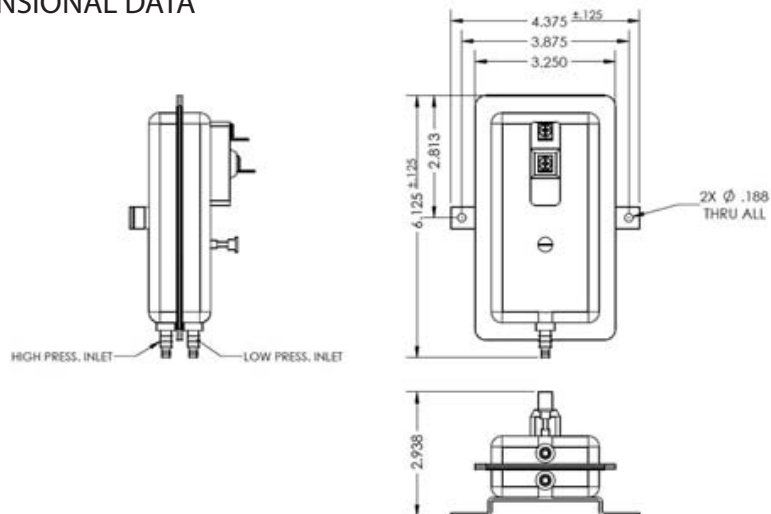
The make-up air function may or may not override the E-Sensor or T-Sensor ventilation-inhibiting function, depending on the wiring configuration chosen by the installer.

The P-Sensor may also be used in a stand-alone makeup air system to control a 24V fresh air damper and/or fan that is ducted to the outdoors.

#### FEATURES

- Adjustable pressure set-point allows sensor to ignore low-flow conditions when make-up air may not be necessary (example: under 400 cfm)
- Wide range of set point adjustability
- Differential-type pressure switch may be installed on positive or negative pressure ducts, for such applications as a range hood with remote fan (negative pressure) or dryer vent (positive pressure)
- Sensing Probe Kit included

#### DIMENSIONAL DATA



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# ENGINEERING DATA P-SENSOR

## PRODUCT SPECIFICATIONS

Ports: Barbed tube, 1/4" ID flexible plastic tubing

Tubing: 3' clear vinyl, 1/4" ID

Electrical terminals: .25 x .032 male quick-connect

Agency approvals: UL & CSA or cULus

Contacts: SPST, NO, close on differential increase

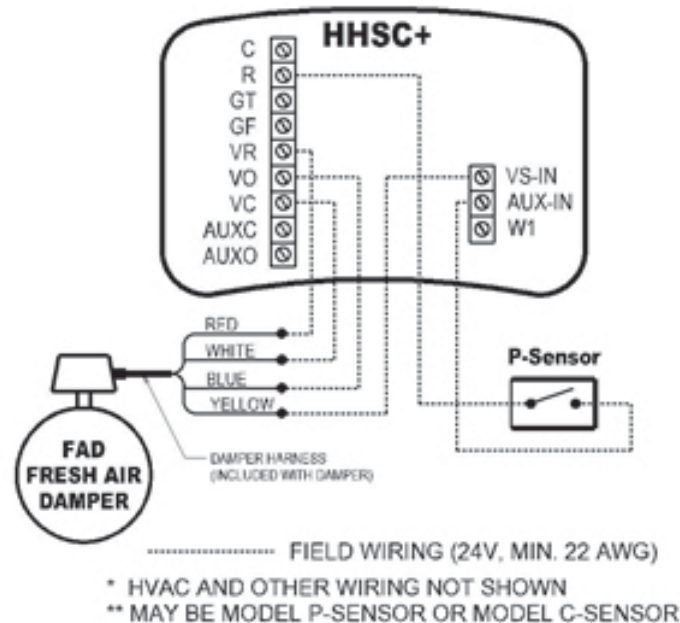
300 VA pilot duty @ 115 to 277 VAC, 15A non-inductive to 277 VAC

Operating Temp Range: -40°F to 180°F

Set Point Range: .05"+ .02 to 2.0" wc

Mounting: Diaphragm must be in a vertical plane

## TYPICAL WIRING DIAGRAM



## MAKE-UP WIRING CONFIGURATIONS

Sensing Device Connection	System Operation Upon Sensing Makeup Air Demand	Application Notes
HHSC+ Control, P-Sensor and FAD Wiring Diagram	The HHSC+ sends fan-on override command to HVAC circulation fan, sends command to open FAD damper. The P-Sensor allows the FAD damper to open for makeup air regardless of outdoor conditions. The P-Sensor will command the FAD damper to open, regardless of outdoor conditions and status of HHSC+ and HVAC circulation fan.	Makeup Air will be actively forced into the house, regardless of outdoor conditions.

## PROJECT INFORMATION

Quoted by:	Date:
Project:	Remarks:
Quantity:	
Model:	
Site:	
Architect:	
Engineer:	
Contractor:	



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