

# Honeywell

## P7660/P7645 Dry Pressure Sensors

### PRODUCT DATA

### APPLICATION

The P7660 dry media pressure sensors feature multiple ranges and multiple output types. The P7645 dry media pressure sensors provides single-range, single output configurations. These are both optimized for building (zone) pressure, filter measurement, and static duct applications. Innovative static probe on P7660 integrates with unit or can be mounted remotely for static pressure measurement.

### FEATURES



#### P7660 Universal Sensor

- Four selectable pressure ranges.
- Uni/bi-directional modes.
- Selectable output type 4-20 mA loop powered, 4-20 mA 3-wire, 05 Vdc, 0-10 Vdc.
- Zero calibration push button and remote contact input.
- Designed for duct, filter, and remote probe applications in a single universal unit.

- Optional probe is compatible with both 1/8" and 1/4" ID hose.
- Designed for duct, filter, and remote probe applications in a single universal unit.
- Flexible panel Dual orientation DIN rail mount.
- Optional LCD display shows pressure in PSID of kPa.



#### P7645 Sensor

- Budget friendly alternative version with 4-20 mA output and single pressure range.
- Uni/bi directional modes.
- Zero calibration push button and remote contact input.
- Designed for duct, filter, and remote probe applications in a single universal unit.
- Flexible panel Dual orientation DIN rail mount.
- Zero calibration push button and remote contact input.



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# SPECIFICATIONS

**Table 1. Specification by Product.**

Product Number	Pressure Range (in W.C.)	Output	LCD Display	Probe
P7645C0010X	0-0.10	4-20 mA Loop	No	No
P7645C0025X	0-0.25	4-20 mA Loop	No	No
P7645C0100X	0-1.0	4-20 mA Loop	No	No
P7645C0500X	0-5.0	4-20 mA Loop	No	No
P7660P0500D	0.1/0.25/2.5/5	Universal	Yes	No
P7660P0500X	0.1/0.25/2.5/5	Universal	No	No
P7660P1000D	1.0/2.5/5/10	Universal	Yes	No
P7660P1000X	1.0/2.5/5/10	Universal	No	No
P766D0500D	0.1/0.25/2.5/5	Universal	Yes	Yes
P766D0500X	0.1/0.25/2.5/5	Universal	No	Yes
P766D1000D	1.0/2.5/5/10	Universal	Yes	Yes
P766D1000X	1.0/2.5/5/10	Universal	No	Yes

**Optional Probe:**  
P7600PROBE



**Power Supply:**  
12-30 Vdc/24 Vac<sup>1</sup>, 30 mA max.

**Outputs:**  
P7660: 3-wire 0-5 V/10V, 4-20 mA loop powered,  
3-wire 4-20 mA (selectable)  
P7645: 4-20 mA loop powered

**Output Scaling:**  
P7660 Selectable Ranges: 0-5 in. W.C. (0.1/0.25/2.5/5 in. W.C.)  
P7645 Models: 0-0.1 in. W.C. (1.0/2.5/5/10 in. W.C.)

**Operating Temperature:**  
Operating Range: -4 °F to 185 °F (-20 °C to 85 °C)  
Compensated Range: 32 °F to 122 °F (0 °C to 50 °C)

**Media Compatibility:** Dry, oil-free air. Nitrogen.

**Sensor Type:**  
Precision Calibrated: MEMS silicon piezoresistive

**Accuracy:**  
Combined Linearity and Hysteresis:  
+/- 1.0% of selectable range  
BFSL: +/- 0.25% BSFL

**Auto-Zero Input:** Push-button and contact closure input.

**Pressure Connection:** 0.250" or 0.375"

**Enclosure:**  
Material: ABS  
Dimensions: 4.75" H x 1.82" W x 0.90" D

<sup>1</sup>One side of transformer secondary is connected to signal common. Dedicated transformer is recommended.

**Honeywell Building Technologies**

In the U.S.:  
Honeywell  
715 Peachtree Street NE  
Atlanta, GA 30308  
customer.honeywell.com  
buildingcontrols.honeywell.com

