

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.



31-00423-01

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 Vac¹, 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

¹One side of transformer secondary is connected to signal common. Dedicated transformer is recommended.

Honeywell Building Technologies

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