# P265
# Stainless Steel Pressure Transducers

## Applications

- Steam Sterilizers
- Gasoline & Diesel Engines
- Natural Gas & CNG Engines
- Agricultural Chemical Equipment
- Hydraulic Systems
- Level Measurement
- Test Equipment
- Injection Molding
- Coolant Pressure
- Industrial Compressors

## Standard Full Scale Pressure Ranges

0-15, 20, 30, 50, 75, 100, 150, 0-200, 300, 500, 750, and 1000 PSIA, PSIG, PSIS

## Features

- Wet & Dry Media
- Superior Long Term Stability
- Excellent Repeatability/Hysteresis
- Superior EMI/RFI Rejection
- Low Power Consumption
- Linear Amplified Output
- Temperature Compensated
- Over-Voltage, Reverse Polarity & Short Circuit Protection
- Ten Million Cycle Life Expectancy
- Outstanding Shock & Vibration Performance

## Description

The model P265 is based on Kavlico's field-proven ceramic capacitive technology with the latest state-of-the-art ASIC. Featuring a 316SS housing, the P265 is designed for general use wherever a rugged and reliable pressure transducer is required.

The P265 package has a built-in Metri-Pack 150, electrical connector and supports popular process connection threads. The P265 is offered with a variety of seal materials and is suitable for many diverse applications. Specifically intended for OEM applications, the P265 delivers a cost effective solution without compromising performance or reliability.

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## Technical Specifications

Note: Performance Specifications with 5v ± 0.002 Vdc supply at 25°C

| | |
|---|---|
| Pressure Ranges: | 0 – 15 PSI through 0 – 1,000 PSI<br>Absolute, Gage or Sealed Gage |
| Proof Pressure: | 5x (FSO) (15 through 75 PSI)<br>3x (FSO) (100 through 500 PSI)<br>2x (FSO) (750 and 1,000 PSI) |
| Burst Pressure: | 1,000 (15 through 75 PSI)<br>2,000 PSI (100 through 1,000 PSI) |
| Supply Voltage: | 4.50 Vdc to 5.50 Vdc |
| Supply Current: | 5 mA (Max) |
| Response Time: | 15ms Max to 63% of F.S. Pressure<br>with Step Change on Input |
| Output Voltage | |
| Zero/Null Pressure: | 0.50 ±0.08 Vdc |
| Full Pressure: | 4.50 ±0.08 Vdc |
| Ratiometricity: | ±0.5% of Span |
| Total Error Band: | 2.0% of Span (-20˚C to +100˚C) |
| Output Impedance: | < 100 Ω |
| Operating Temperature: | -40°C to +125°C<br>(Seal Material Dependant) |
| Storage Temperature: | -40°C to +135°C |
| Service Life: | 10 Million Full Pressure Cycles |
| Vibration: | 10G P-P Sinusoidal, from 10-2000Hz |
| Shock: | 75 G ½ Sine Wave |
| Ingress Protection: | IP67 |
| Stability: | ±0.5% of Full Span over 1-Year |
| Weight: | 100 grams (Max) |
| Electrical Termination: | Packard Electric Metri-Pack 150 Series |
| Pressure Connection: | See “How to Order” |
| Output Load: | >25k Ω |
| Over-Voltage Protection: | 16 Vdc |
| Reverse Polarity Protection: | -5 Vdc |
| Main Housing Material: | 316 Stainless Steel |

## How to Order

**P265 Pressure Transducer**

**Pressure Range**

| | |
|---|---|
| 15 | 0 - 15 PSI |
| 20 | 0 - 20 PSI |
| 30 | 0 - 30 PSI |
| 50 | 0 - 50 PSI |
| 75 | 0 - 75 PSI |
| 100 | 0 -100 PSI |
| 150 | 0 - 150 PSI |
| 200 | 0 - 200 PSI |
| 300 | 0 - 300 PSI |
| 500 | 0 - 500 PSI |
| 750 | 0 - 750 PSI |
| 1000 | 0 - 1000 PSI |

**Reference**

| | |
|---|---|
| A | Absolute |
| G | Gage |
| S | Sealed Gage |

**Seal Material**

| | | |
|---|---|---|
| B | Nitrile | -40 to + 121° C |
| C | Neoprene | -34 to + 107° C |
| D | Fluorocarbon | -20 to + 125° C |
| E | Fluorosilicone | -40 to + 125° C |
| F | Ethylene Propylene | -40 to + 121° C |

**Pressure Connection**

| | |
|---|---|
| 1 | 1/4 - 18 NPT (External Threads) |
| 2 | 3/8 - 24 UNF-2A (Male) |
| 3 | 3/8 - 24 UNF-2B (Female) |
| 4 | 1/8 - 27 NPT |

**Electrical Connection**

| | |
|---|---|
| A | With Mating Connector, w/12”, 18 AWG Leads |
| B | 12”, 18 AWG Leads |
| C | Metri-Pack 150 Series Connector |

P265 - 500 - S - F - 1 - A

Example: P265 - 500 - S - F - 1 - A

Description: P265 Pressure Transmitter, 0 - 500 PSIS (Sealed Gage), with Ethylene Propylene Seal Material, 1/4 - 18 NPT Pressure Connection, and Mating Connector

Before installation and operation, ensure that the appropriate pressure sensor has been selected in terms of pressure range, design and specific measuring conditions.

Non-compliance can result in serious injury and/or damage to the equipment.

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