

# ***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.

## Technical Specifications

Note: Performance Specifications with  $5\text{V} \pm 0.002\text{Vdc}$  supply at  $25^\circ\text{C}$

|                              |                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------|
| 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:          | $0.50 \pm 0.08\text{Vdc}$                                                                      |
| Full Pressure:               | $4.50 \pm 0.08\text{Vdc}$                                                                      |
| Ratiometricity:              | $\pm 0.5\%$ of Span                                                                            |
| Total Error Band:            | 2.0% of Span ( $-20^\circ\text{C}$ to $+100^\circ\text{C}$ )                                   |
| Output Impedance:            | $< 100\ \Omega$                                                                                |
| Operating Temperature:       | $-40^\circ\text{C}$ to $+125^\circ\text{C}$<br>(Seal Material Dependant)                       |
| Storage Temperature:         | $-40^\circ\text{C}$ to $+135^\circ\text{C}$                                                    |
| Service Life:                | 10 Million Full Pressure Cycles                                                                |
| Vibration:                   | 10G P-P Sinusoidal, from 10-2000Hz                                                             |
| Shock:                       | 75 G $\frac{1}{2}$ Sine Wave                                                                   |
| Ingress Protection:          | IP67                                                                                           |
| Stability:                   | $\pm 0.5\%$ 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:                 | $> 25\text{k}\ \Omega$                                                                         |
| 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 $+121^\circ\text{C}$ |
| C | Neoprene           | $-34$ to $+107^\circ\text{C}$ |
| D | Fluorocarbon       | $-20$ to $+125^\circ\text{C}$ |
| E | Fluorosilicone     | $-40$ to $+125^\circ\text{C}$ |
| F | Ethylene Propylene | $-40$ to $+121^\circ\text{C}$ |

#### 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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