

# ***P350***

## ***Water Level & Pump Pressure Transducers***

### ***Typical Applications***

- Water Tower Levels
- Waste Water Systems
- Compressed Air Systems
- Central Tire Inflation Systems
- Plant Automation Equipment

### ***Standard Full Scale Pressure Ranges***

0-5, 10, 15, 30, 50, 75, 100  
and 150 PSIA, PSIG

### ***Features***

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



### ***Description***

The model P350 is based on Kavlico's field-proven ceramic capacitive technology. The lightweight Valox® housing surrounds a low-pressure transducer designed specifically for pressures between 5 PSI and 150 PSI. It is available in both gage and absolute references.

The P350 package has a built-in Metri-Pack 150, straight pin arrangement, electrical connector and a ¼ - 18 NPT pressure connection.

## Technical Specifications

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

Pressure Ranges:	0 – 5 PSI through 0 – 150 PSI Gage or Absolute
Proof Pressure:	10x (5, 10 PSI), 3x (15, 30 PSI), 2x (50, 75 PSI), 1.5x (100, 150 PSI)
Burst Pressure:	150 PSI (5 PSI), 250 PSI (10 through 150 PSI)
Supply Voltage:	4.75 Vdc to 8 Vdc
Supply Current:	4 mA @ 5.00 Vdc, 5 mA (Max)
Linearity Error:	±0.5% of Full Span Max.
Response Time:	15ms Max to 63% of F.S. Pressure with Step Change on Input
Output Voltage	
Zero/Null Pressure:	0.50 ±0.08Vdc
Full Pressure:	4.50 ±0.08 Vdc
Hysteresis and Repeatability Errors:	±0.05% Full Span (Max)
Total Error Band:	2.0% of Span (-30°C to +100°C)
Output Impedance:	< 100 Ω
Operating Temperature:	-30°C to +100°C
Storage Temperature:	-40°C to +125°C
Service Life:	10 Million Full Pressure Cycles
Vibration:	10G's P-P Sinusoidal, 10 -2000 Hz
Shock:	75 G's ½ Sine Wave
Stability:	±0.5% of Full Span over 1-Year
Humidity:	99% Non Condensing
Weight:	115 grams Max.
Electrical Termination:	Metri-Pack 150 Series, Straight Pin Arrangement, Electrical Connector
Preferred Mounting Position:	None
Pressure Connection:	¼" -18 NPT
Output Load:	>25kΩ
Over-Voltage Protection:	16 Vdc
Reverse Polarity Protection:	-5 Vdc



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.

Warning: The product information contained in this catalogue is given purely as information and does not constitute a representation, warranty or any form of contractual commitment. Kavlico reserve the right to modify their products without notice. It is imperative that we should be consulted over any particular use or application of our products and it is the responsibility of the buyer to establish, particularly through all the appropriate tests, that the product is suitable for the use or application. Under no circumstances will our warranty apply, nor shall we be held responsible for any application (such as any modification, addition, deletion, use in conjunction with other electrical or electronic components, circuits or assemblies, or any other unsuitable material or substance) which has not been expressly agreed by us prior to the sale of our products.

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## How to Order

### P350 Pressure Transducer

#### Pressure Range

5	0 - 5 PSI
10	0 - 10 PSI
15	0 - 15 PSI
30	0 - 30 PSI
50	0 - 50 PSI
75	0 - 75 PSI
100	0 - 100 PSI
150	0 - 150 PSI

#### Reference

A	Absolute
G	Gage

#### Seal Material

B	Buna-N (Nitrile)	-40 to + 120° C
C	Neoprene	-34 to + 120° C
D	Fluorocarbon (Viton)	-17 to + 120° C
E	Fluorosilicone	-40 to + 120° C

#### Pressure Connection

1	1/4 - 18 NPT (External Threads)
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#### Electrical Connection

A	With Mating Connector, w/12", 18 AWG Leads
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P350 - 5 - A - E - 1 - A

Example: P350 - 5 - A - E - 1 - A

Description: P350 Pressure Transducer, 0 - 5 PSIA (Absolute) with Fluorosilicone O-Ring, 1/4 - 18 NPT Pressure Connection, and Mating Connector

**Don't see what you want?**

Call us at +1 (619) 710-2068 to customize this product to meet your application-specific needs!