

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 1/4 - 18 NPT pressure connection.

Technical Specifications

Note: Performance Specifications with $5\text{V} \pm 0.002\text{Vdc}$ 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:	$\pm 0.5\%$ 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 $\pm 0.08\text{Vdc}$
Full Pressure:	4.50 $\pm 0.08\text{Vdc}$
Hysteresis and	
Repeatability Errors:	$\pm 0.05\%$ Full Span (Max)
Total Error Band:	2.0% of Span (-30°C to $+100^\circ\text{C}$)
Output Impedance:	$< 100\ \Omega$
Operating Temperature:	-30°C to $+100^\circ\text{C}$
Storage Temperature:	-40°C to $+125^\circ\text{C}$
Service Life:	10 Million Full Pressure Cycles
Vibration:	10G's P-P Sinusoidal, 10 -2000 Hz
Shock:	75 G's $\frac{1}{2}$ Sine Wave
Stability:	$\pm 0.5\%$ 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:	$\frac{1}{4}$ " -18 NPT
Output Load:	$> 25\text{k}\Omega$
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.

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 $+120^\circ\text{C}$
C	Neoprene	-34 to $+120^\circ\text{C}$
D	Fluorocarbon (Viton)	-17 to $+120^\circ\text{C}$
E	Fluorosilicone	-40 to $+120^\circ\text{C}$

Pressure Connection

1	$\frac{1}{4}$ " - 18 NPT (External Threads)
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Electrical Connection

A	With Mating Connector, w/ $\frac{1}{2}$ ", 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,
 $\frac{1}{4}$ " - 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!

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