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The Filter Monitoring Experts

## LOW PRESSURE SENSOR



### Description

New low pressure sensors can monitor vacuum or pressure and excel at maintaining accuracy across a wide temperature range. Sensors are available in multiple vacuum or pressure settings, an integrated AMPSEAL 16 electrical connection, and can be furnished with custom mounting.

### Applications

- Air Filter Restriction
- HVAC/Cabin Pressure
- Exhaust Pressure
- Industrial Filters
- Crankcase Pressure

### Markets Served

- Automotive
- Truck and Bus
- Construction
- Agriculture
- Industrial
- Marine
- Pneumatics

### Features

- Linear Output
- Temperature Compensated
- Vacuum or Pressure
- Custom Mounting
- Sealed AMP Electrical Connector

## Technical Specifications

### Pressure Ranges (gage)

0-40 inH<sub>2</sub>O (0-100mBar)  
 (other customer ranges available if volume permits)

### Electrical

Supply Voltage (V<sub>dd</sub>) ..... 5 ± 0.25 Vdc (12 & 24Vdc optional)  
 Supply Current ..... 5mA MAX  
 Output Voltage (V<sub>o</sub>) ..... 10 to 90 %V<sub>dd</sub> (0.5 to 4.5 Vdc)  
 Output Impedance ..... 250 ohm MAX  
 Output Current ..... 0.040 mA MAX  
 Overvoltage ..... 45 V Momentary Contact  
 Reverse Polarity ..... 36 V Momentary Contact

### Performance

Accuracy<sup>1</sup> ..... 2.5 %FSO  
 Resolution ..... 0.12 %FSO  
 Lifetime Drift ..... 0.5 %FSO MAX  
 Repeatability ..... 1.5 %FSO MAX  
 Response Time ..... 2 ms FSO MAX  
 Operating Temperature ..... -40°C to 125°C  
 Storage Temperature ..... -40°C to 125°C  
 Burst Pressure ..... 30 psi  
 Proof Pressure ..... 20 psi  
 Service Life ..... 10 Million Cycles FSO  
 Vibration ..... 10-2000 Hz at 10 g's  
 Ingress Protection ..... IP66

<sup>1</sup>(Includes all error for hysteresis and linearity over the entire operating temperature range. Does not include lifetime drift)

### Physical

Media ..... Dry Gases (check with manufacturer)  
 Materials External ..... PA66-GF13  
 Materials Wetted ..... Thermoset Plastic, Glass (Pyrex), Silicon, epoxy, RTV, Pyrex, UV Silicone Gel and NBR  
 Electrical Connection ..... AMPSEAL 16 (3-Way)  
 Pressure Connection Port ..... 1/8-27 NPT (F), 3/8-24 (F) Straight Thread, M10x1 (F). Various adaptor fittings available

