



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.

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The Filter Monitoring Experts

Applications

- Air Filter Restriction
- HVAC/Cabin Pressure
- Exhaust Pressure
- Liquid Level
- 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 inH₂O (0-100mBar)

(other customer ranges available if volume permits)

Electrical

Supply Voltage (Vdd)	5 ± 0.25 Vdc (12 & 24Vdc optional)
Supply Current	5mA MAX
Output Voltage (Vo)	10 to 90 %Vdd (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 ¹	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	IP65

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

Physical

Media	Dry Gases, select liquids (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

