Ranges and Resolution
See table below for popular ranges. Consult factory for special engineering units. Resolution is fixed as indicated. See our F16L series for ranges greater than 2000 or if more display resolution is required.

<table>
<thead>
<tr>
<th>Ranges</th>
<th>Resolution</th>
<th>Pressure units</th>
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<td>2700INH2O</td>
</tr>
<tr>
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<td>5400INH2O</td>
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<td>8100INH2O</td>
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</table>

Accuracy
Includes linearity, hysteresis, repeatability
Standard: ±0.25% of full scale ±1 least significant digit
Optimal: ±0.1% FS ±1 LSD (most ranges)

Display
3.5 digit LCD, 0.5” digit height (indicates to 1999)
3 readings per second nominal display update rate

Controls
Non-interactive zero and span, ±10% range
Output test adjustment: 0-100% range
Retransmission zero and span: Internal potentiometers

Loop Supply Voltage
Any DC supply/loop resistance that maintains 8 to 32 VDC at gauge terminals
Gauge is reverse polarity protected
3 ft long, 2-conductor 22 AWG cable with stripped and tinned wire ends
Use with API 9046-24 loop power supply

Output Test Function
Front panel TEST button, when depressed sets loop current and display to output test level, independent of pressure input, to allow testing of system operation.

Weight
9 ounces (approx.)
Shipping wt. 1 pound (approx.)

Housing
NEMA 4X: UV stabilized ABS/polycarbonate case and rear cover. Gasketed rear cover with six captive stainless steel screws. Polycarbonate label.

Dimensions
Standard: 3.38” W x 2.88” H x 1.65” D housing
NEMA 4X: 3.5” W x 2.5” H x 2.0” D housing
Add approximately 0.75” to height for pressure fitting

Connection and Material
1/4” NPT male fitting
Sensor and all wetted parts are 316L stainless steel

Overpressure
Ranges using 3000 psig sensor: 5000 psig
Ranges using 5000 psig sensor: 7500 psig
All others: 2 X pressure range
Vacuum service: ±15 psig, 15 psig, 30 psig, 100 psig, 1000 psig, 200 psig sensors

Burst Pressure
4 X sensor pressure rating, or 10,000 psi, whichever is less

Environmental Storage Temperature
-40 to 233°F (−40 to 95°C)
Compensated Temperature: 32 to 158°F (0 to 70°C)

How to Specify Type
DPG1000L - options
Standard housing
F4L range - options
NEMA 4X housing

How to Order
DPG1000L range - options
Standard housing
F4L range - options
NEMA 4X housing

Options—add to end of model number
HA
High accuracy, ±0.1% FS ±1 LSD. Not available with 3 psi, bipolar, absolute, or vacuum sensors, and some 3.5 digit display ranges. See table at left for availability.

PM
Panel mount, 4.1” x 4.1”. DPG1000 only.

MC
Metal front cover. DPG1000 only.

CC
Moisture resistant circuit board conformal coating

Accessories—order separately
CD
Calibration data, 5 test points and date
NC
NIST traceability documentation, 5 points and date

Examples
DPG1000L100PSIG-HA
100 psig, high accuracy
F4L-100V700KPG
NEMA 4X, 100 to 700 kPa
Instructions

Types of Gauges

Gauge reference types read zero with the gauge port open. Bi-polar ranges read positive pressure and vacuum in the same units, and zero with the gauge port open.

1000 psi and higher sensor are a sealed reference type. They read zero with the gauge port open and are internally referenced to 14.7 psi. Functionally similar to gauge reference sensors.

Absolute reference gauges read zero at full vacuum and atmospheric pressure with the gauge port open. With an open gauge port the readings will vary continuously due to the effects of barometric pressure.

Precautions

✓ Read these instructions before using the gauge. Configuration may be easier before installation. Contact the factory for assistance.
✓ These products do not contain user-serviceable parts. Contact us for repairs, service, or refurbishment.
✓ Gauges must be operated within specified ambient temperature ranges.
✓ Outdoor or wash down applications require a NEMA 4X gauge or installation in a NEMA 4X housing.
✓ Use a pressure or vacuum range appropriate for the application.
✓ Use fittings appropriate for the pressure range of the gauge.
✓ Due to the hardness of 316 stainless steel, it is recommended that a thread sealant be used to ensure leak-free operation.
✓ For contaminated media use an appropriate screen or filter to keep debris out of gauge port.
✓ Remove system pressures before removing or installing gauge.
✓ Install or remove gauge using a wrench on the hex fitting to avoid damaging the sensor diaphragm. Do not attempt to turn gauge by forcing the housing.
✓ Good design practice dictates that positive displacement liquid pumps include protection devices to prevent sensor damage from pressure spikes, acceleration head, and vacuum extremes.
✓ Avoid permanent sensor damage! Do not apply vacuum to non-vacuum gauges or hydraulic vacuum to any gauges.
✓ Avoid permanent sensor damage! NEVER insert objects into gauge port or blow out with compressed air.
✓ Gauges are not for oxygen service. Accidental rupture of sensor diaphragm may cause silicone oil inside sensor to react with oxygen.
✓ NEVER connect the gauge wires directly to 115 VAC or reacts with oxygen.

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