

Digital Vacuum and Pressure Gauges



ENCASED MODEL



OEM MODEL

APPLICATION

These digital vacuum and pressure gauges function as stand-alone instruments for measuring vacuum and pressure levels in dry gas systems. Optional liquid/air separator filters are available for systems containing liquids.

Gauges are available for measuring vacuum, absolute pressure, differential pressure, or gauge pressure.

Vacuum Gauges measure system pressures lower than, and relative to, the surrounding atmospheric pressure. Therefore, this type of gauge reads zero when no vacuum is present and indicates a vacuum level equivalent to the ambient pressure when subjected to a perfect vacuum (zero absolute pressure). If a constant differential vacuum is maintained in the system, the gauge reading will fluctuate over time as the barometric pressure (weather) changes.

Differential vacuum measurement is important in applications where it is necessary to maintain precise control of vacuum-generated forces, for example, when vacuum clamping delicate or fragile parts. Differential vacuum control is also useful whenever it is desired to maintain a constant vacuum offset regardless of changes in atmospheric pressure.

Absolute Pressure Gauges measure pressure relative to a perfect vacuum. High vacuum levels are frequently defined in terms of absolute pressure. A zero reading is displayed when system pressure is reduced to near perfect vacuum conditions. When no vacuum is applied, the display indicates the prevailing ambient pressure (approximately 29.92 in. Hg, 14.7 psi, or 760 mm Hg at sea level).

Differential Pressure Gauges measure the difference between two pressure sources. A typical application for this type of gauge might involve measuring the pressure drop across a filter, valve, or restrictor. Differential pressure gauges are directionally sensitive. The high pressure port must be maintained at a level equal to or above that at the low pressure port or damage to the gauge may occur.

FEATURES

Encased models incorporate a high-impact, splash-resistant ABS plastic enclosure with mounting flanges for attachment to flat surfaces.

Optional analog pressure signal output available on all models.

Encased models include a 120 VAC wall transformer.

OEM models permit easy integration into user's product/control panel. (Requires 8-15 VDC at 250 mA)



L. J. ENGINEERING, INC.

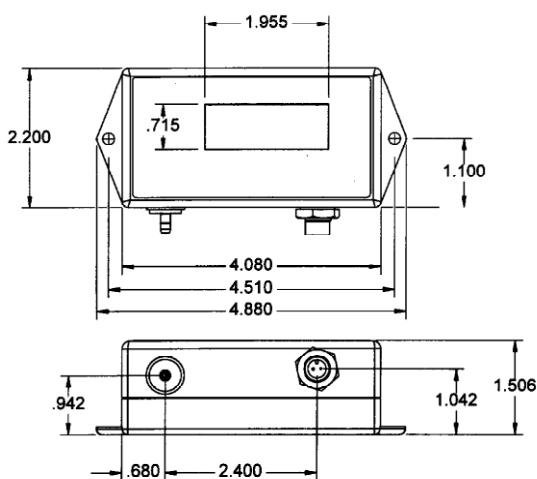
18192 Gothard Street
Huntington Beach, CA 92648

Phone: (714) 848-8001

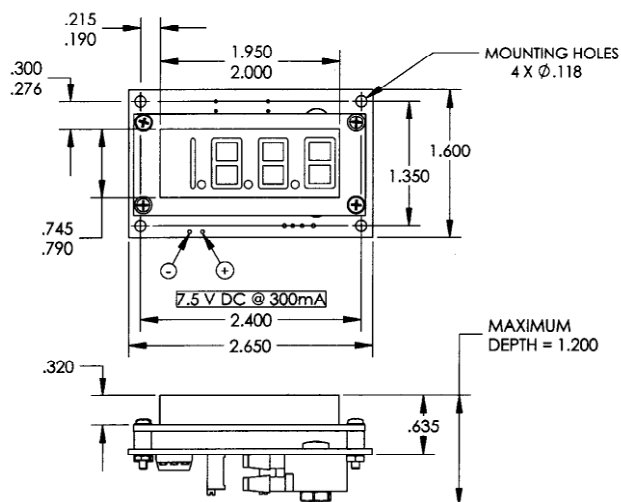
Fax: (714) 848-0973

Website: www.ljengineering.com

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ENCASED MODEL



OEM MODEL

TYPE	RANGE	RESOLUTION	ENCASED MODEL	OEM MODEL
Vacuum	0 to 19.99 in.H ₂ O	± 0.01 in. H ₂ O	DVG-3	DVG-3M
Vacuum	0 to 390 in.H ₂ O	± 0.01 in. H ₂ O	DVG-4	DVG-4M
Vacuum	0 to 19.99 in.Hg	± 0.01 in. Hg	DVG-5	DVG-5M
Vacuum	0 to 29.5 in.Hg	± 0.01 in. Hg	DVG-2	DVG-2M
Vacuum	0 to 199.9 mm Hg	± 0.01 mm Hg	DVG-6	DVG-6M
Vacuum	0 to 730 mm Hg	± 0.01 mm Hg	DVG-7	DVG-7M
Vacuum	0 to 100 millibar	± 0.1 mm Hg	DVG-8	DVG-8M
Vacuum	0 to 1.999 in.Hg	± 0.001 in. Hg	DVG-9	DVG-9M
Absolute Pressure	2.20 to 15.00 psia	± 0.01 psi	DPG-1A	DPG-1AM
Absolute Pressure	4.5 to 29.9 in.Hg	± 0.01 in. Hg	DPG-2A	DPG-2AM
Absolute Pressure	113 to 800 mm Hg	± 0.01 mm Hg	DPG-3A	DPG-3AM
Differential Pressure	0 to 19.99 in.H ₂ O	± 0.01 in. H ₂ O	DPG-3D	DPG-3DM
Differential Pressure	0 to 390 in.H ₂ O	± 0.01 in. H ₂ O	DPG-4D	DPG-4DM
Differential Pressure	0 to 19.99 in.Hg	± 0.01 in. Hg	DPG-5D	DPG-5DM
Differential Pressure	0 to 29.5 in.Hg	± 0.01 in. Hg	DPG-2D	DPG-2DM
Differential Pressure	0 to 199.9 mm Hg	± 0.01 mm Hg	DPG-6D	DPG-6DM
Differential Pressure	0 to 730 mm Hg	± 0.01 mm Hg	DPG-7D	DPG-7DM
Gauge Pressure	0 to 14.50 psig	± 0.01 psi	DPG-2G	DPG-2GM
Gauge Pressure	0 to 100.0 psig	± 0.01 psi	DPG-1G	DPG-1GM
Gauge Pressure	0 to 100.0 kPa	± 0.1 kPa	DPG-3G	DPG-3GM
Gauge Pressure	0 to 700 kPa	± 1 kPa	DPG-4G	DPG-4GM

SPECIFICATIONS

Accuracy:	+ 0.25% of full scale range
Range:	Specified on front of Digital Gauge
Environmental range:	
Temperature:	0°F to 150°F
Relative Humidity:	95% non-condensing from 0°F to 150°F
Power Supply:	
Input:	120 VAC, 60 Hz, 6W
Output:	9 VDC, 300 mA