

VERY-HIGH-ACCURACY DIGITAL PRESSURE GAUGE LARGE, EASY-TO-READ DISPLAY



DPG4000 Series



- ✓ RS232 Communications Standard
- ✓ Very High Accuracy: $\pm 0.05\%$ FS
- ✓ Calibration Certificate Included
- ✓ Temperature Compensated: 0 to 50°C
- ✓ Displays in 18 Standard or Custom Engineering Units
- ✓ Displays Ambient Temperature in °C or °F
- ✓ Large, Backlit, 5-Digit Display with 16.5 mm (0.65") High Digits and 20-Segment Bar Graph
- ✓ Rugged Stainless Steel Case Meets NEMA 4 (IP65) Rating
- ✓ Min/Max Recall
- ✓ Adjustable Tare Zeros Large System Offsets
- ✓ User-Configurable Sample Rate Maximizes Measurement Performance and Battery Life
- ✓ User-Configurable Damping Smooths Readings from Pulsating Sources
- ✓ Auto Shut-Off for Extended Battery Life



DPG4000-30 shown smaller than actual size.

- ✓ Low-Battery Indicator
- ✓ Available with Optional 24 V External Power Input
- ✓ Rear Pressure Port Optional

OMEGA's DPG4000 takes the concept of a pressure test gauge to a new level. It combines the accuracy of digital technology with the simplicity of an analog gauge, delivering performance, ease of use, and a feature set unmatched in the pressure measurement world. Setup of the DPG4000 is fast and straightforward, involving a menu-driven display with minimal text and intuitive functions. The gauge is simple enough to be used anywhere in the world, without the need for multilingual displays.

SPECIFICATIONS

(0 to 50°C Unless Otherwise Noted)

Accuracy: $\pm 0.05\%$ FS positive pressure, $\pm 0.1\%$ FS on compound models

Temperature Compensation: 0 to 50°C (32 to 122°F) to rated accuracy

Proof Pressure: See table, next page

Burst Pressure: See table, next page

Note: DPG4000, positive pressure ranges up to and including 100 psig should not be used for vacuum measurements. Vacuum of -5 psig will cause permanent damage to the sensor on low pressure models. Compound ranges can be used to measure vacuum. Vacuum can be used on the 300 psi and 500 psig ranges without damage.

Standard Engineering Units: psi, bar, kg/cm², inH₂O (4°C, 20°C or 60°F), ftH₂O (4°C, 20°C or 60°F), cmH₂O (4°C and 20°C), mH₂O (4°C and 20°C), kPa, mbar, inHg, mmHg, torr

Media Compatibility: Liquids and gases compatible with 316 SS

VERY-HIGH-ACCURACY DIGITAL PRESSURE GAUGE

Operating Temperature: -10 to 55°C (14 to 131°F)
Storage Temperature: -20 to 70°C (-4 to 158°F)
Dimensions: 111.1 x 127 x 38.1 mm (4.375 x 5 x 1.50")
Input Port: ¼ MNPT lower mount
Display: 5-digits, 16.5 mm (0.65") H
Bar Graph: 0 to 100% in 20 segments
Power: 3 "AA" alkaline batteries (included); 24 Vdc power (optional)
Battery Life: 1500 hours without backlight (2000 hours at slow sample rate)
Low Battery Indicator: Icon displayed near the end of battery life; remaining battery life can also be displayed on bar graph



DPG4000-30 shown smaller than actual size.

To Order

MODEL NO.	DESCRIPTION (RANGE/RESOLUTION)	PROOF PRESSURE	BURST PRESSURE
DPG4000-1	Battery-powered digital pressure gauge, -1 to 1 psi range	5 psi	50 psi
DPG4000-15	Battery-powered digital pressure gauge, 0 to 15 psi range	30 psi	500 psi
DPG4000-30	Battery-powered digital pressure gauge, 0 to 30 psi range	60 psi	500 psi
DPG4000-100	Battery-powered digital pressure gauge, 0 to 100 psi range	200 psi	1000 psi
DPG4000-300	Battery-powered digital pressure gauge, 0 to 300 psi range	600 psi	2000 psi
DPG4000-500	Battery-powered digital pressure gauge, 0 to 500 psi range	1000 psi	2000 psi
DPG4000-1K	Battery-powered digital pressure gauge, 0 to 1000 psi range	2000 psi	10k psi
DPG4000-2K	Battery-powered digital pressure gauge, 0 to 2000 psi range	3000 psi	10k psi
DPG4000-3K	Battery-powered digital pressure gauge, 0 to 3000 psi range	6000 psi	10k psi
DPG4000-5K	Battery-powered digital pressure gauge, 0 to 5000 psi range	10k psi	10k psi
DPG4000-10K	Battery-powered digital pressure gauge, 0 to 10,000 psi range	15k psi	15k psi
COMPOUND PRESSURE GAUGES			
DPG4000-15C	Battery-powered digital compound pressure gauge, -15 to 15 psi range	30 psi	500 psi
DPG4000-30C	Battery-powered digital compound pressure gauge, -15 to 30 psi range	60 psi	500 psi

Comes complete with 3 "AA" batteries (when applicable), calibration certificate, rubber boot and operator's manual

Note: Lower fitting standard. To order with rear mount, add suffix "-RM" to model number for additional cost (all ranges, all models). To order 24 Vdc power option, add suffix "-DC" to model number for additional cost.

Ordering Examples: DPG4000-100, 0.05% digital pressure gauge with lower fitting and 0 to 100 psig range.

DPG4000-15-RM, 0.05% digital pressure gauge with rear fitting and 0 to 15 psig range.

DPG4000-30-DC, 0.05% digital pressure gauge with lower fitting, 0 to 30 psig range and 24 Vdc power option.

ACCESSORIES

MODEL NO.	DESCRIPTION
DPG4000-RB	Protective rubber boot
DPG4000-C32	RS232 cable
DPG4000-FLANGE	Panel mount flange (for DPG4000-RM only)

VERY-HIGH-ACCURACY DIGITAL PRESSURE GAUGE

DPG4000 RANGES AND RESOLUTIONS

ENGINEERING UNIT	CONVERSION FACTOR	MODEL NUMBER: DPG4000-(*)										
		1	15†	30††	100	300	500	1K	2K	3K	5K	10K
Burst Pressure	—	50	500	500	1000	2000	2000	10000	10000	10000	10000	15000
Proof Pressure	—	5	30	60	200	600	1000	2000	3000	6000	10000	15000
psi	1	1.0000	15.000	30.000	100.00	300.00	500.00	1000.0	2000.0	3000.0	5000.0	10000
bar	0.06894747	0.0689	1.0342	2.0684	6.8947	20.684	34.474	68.947	137.89	206.84	344.74	689.47
mbar	68.94757	68.948	1034.2	2068.4	6894.8	20684	34474	68948	†††	†††	†††	†††
kPa	6.894757	6.8948	103.42	206.84	689.48	2068.4	3447.4	6894.8	13790	20684	34474	68948
Mpa	0.0068947	0.0069	0.1034	0.2068	0.6895	2.0684	3.4474	6.8947	13.789	20.684	34.474	68.947
kg/cm²	0.07030697	0.0703	1.0546	2.1092	7.0307	21.092	35.153	70.307	140.61	210.92	351.53	703.07
mmHg @ 0°C	51.71508	51.715	775.73	1551.5	5171.5	15515	25858	51715	†††	†††	†††	†††
inHg @ 0°C	2.03602	2.0360	30.540	61.081	203.60	610.81	1018.0	2036.0	4072.0	6108.1	10180	20360
cmH₂O @ 4°C	70.3089	70.309	1054.6	2109.3	7030.9	21093	35154	70309	†††	†††	†††	†††
cmH₂O @ 20°C	70.4336	70.434	1056.5	2113.0	7043.4	21130	35217	70434	†††	†††	†††	†††
mmH₂O @ 4°C	703.089	703.1	10546	21093	70309	†††	†††	†††	†††	†††	†††	†††
mmH₂O @ 20°C	704.336	704.3	10565	21130	70434	†††	†††	†††	†††	†††	†††	†††
mH₂O @ 4°C	0.703089	0.7031	10.546	21.093	70.309	210.93	351.54	703.09	1406.2	2109.3	3515.4	7030.9
mH₂O @ 20°C	0.704336	0.7043	10.565	21.130	70.434	211.30	352.17	704.34	1408.7	2113.0	3521.7	7043.4
inH₂O @ 4°C	27.68067	27.681	415.21	830.42	2768.1	8304.2	13840	27681	55361	83042	†††	†††
inH₂O @ 20°C	27.72977	27.730	415.95	831.89	2773.0	8318.9	13865	27730	55460	83189	†††	†††
inH₂O @ 60°F	27.70759	27.708	415.61	831.23	2770.8	8312.3	13854	27708	55415	83123	†††	†††
ftH₂O @ 4°C	2.306726	2.3067	34.601	69.202	230.67	692.02	1153.4	2306.7	4613.5	6920.2	11534	23067
ftH₂O @ 20°C	2.310814	2.3108	34.662	69.324	231.08	693.24	1155.4	2310.8	4621.6	6932.4	11554	23108
ftH₂O @ 60°F	2.308966	2.3090	34.634	69.269	230.90	692.69	1154.5	2309.0	4617.9	6926.9	11545	23090
ft Sea Water	2.247	2.2470	33.705	67.410	224.70	674.10	1123.5	2247.0	4494.0	6741.0	11235	22470
M Sea Water	0.6849	0.6849	10.274	20.547	68.490	205.47	342.45	684.90	1369.8	2054.7	3424.5	6849.0
Torr	51.71508	51.715	775.73	1551.5	5171.5	15515	25858	51715	†††	†††	†††	†††

† Also applies to -15 to 15 psi compound range.

†† Also applies to -15 to 30 psi compound range.

††† Will not be displayed due to limitations on display resolution. In all cases, resolution is limited to 100,000 counts.