

INDUSTRIAL DIGITAL PRESSURE GAUGES

DC-, LOOP-, OR BATTERY-POWERED MODELS

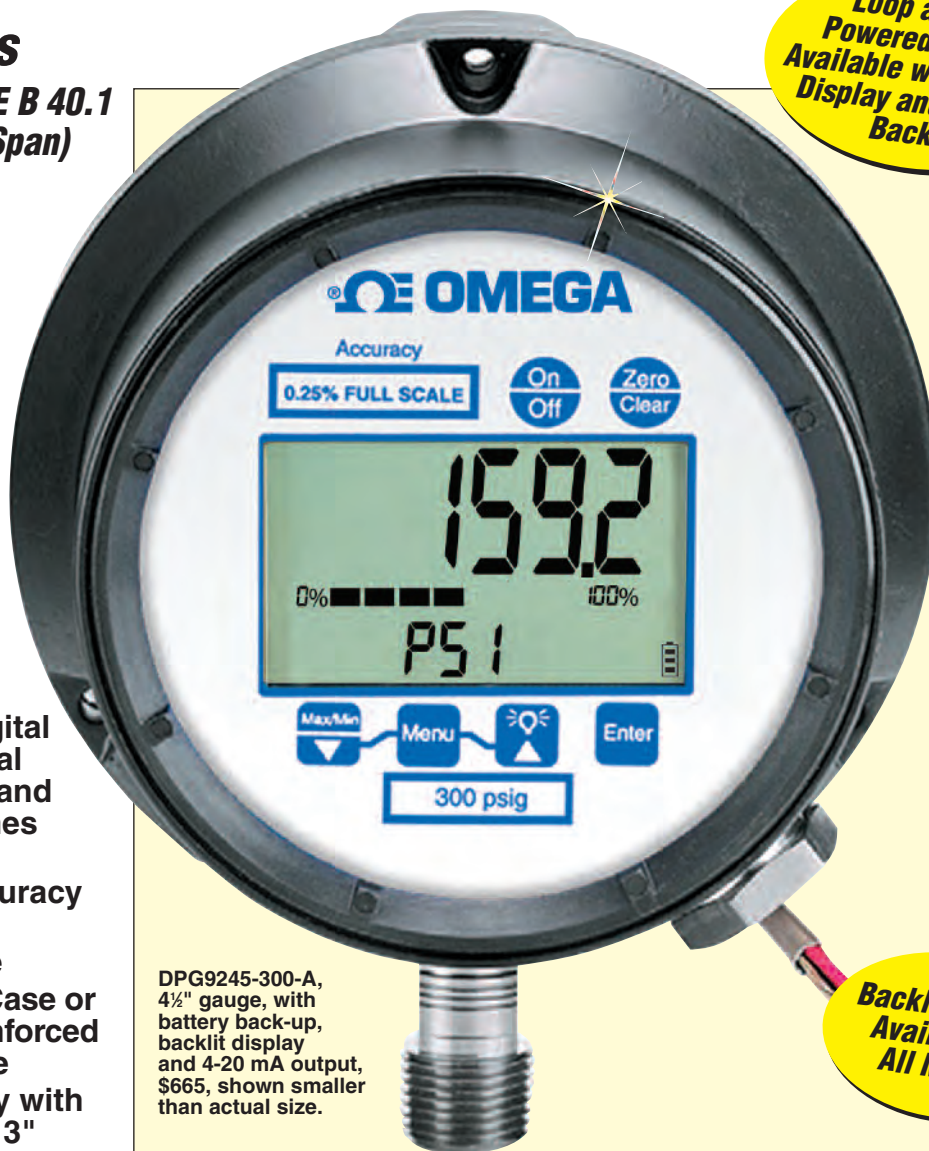
DPG9000 Series

All Models Meet ASME B 40.1
Grade 3A ($\pm 0.25\%$ of Span)
Accuracy
3 or 4½" Gauges

DPG9031
Starts at
\$375



- ✓ A Multifunction Digital Gauge with Optional 4 to 20 mA Output and 1 or 2 SPDT Switches
- ✓ $\pm 0.25\%$ of Span Terminal Point Accuracy
- ✓ NEMA 4 (IP65) Weatherproof Case
- ✓ 3" Stainless Steel Case or 4½" Fiberglass-Reinforced Thermoplastic Case
- ✓ Extra-Large Display with Bar Graph (0.6" on 3" Case, 0.88" on 4½" Case)
- ✓ Min/Max Readings
- ✓ Easy-to-Use Menu Options (All Password Protected):
 - 5 Backlit Display Options
 - 10 Engineering Units
 - Menu-Configure Feature
 - Update Rate
 - Dampen Rate
 - Auto-Off
- ✓ 10 User-Selectable Engineering Units
- ✓ Backlit Display Available



DPG9245-300-A, 4½" gauge, with battery back-up, backlit display and 4-20 mA output, \$665, shown smaller than actual size.

Loop and DC
Powered Models
Available with Backlit
Display and Battery
Backup

Backlit Display
Available on
All Models

SPECIFICATIONS

Accuracy: $\pm 0.25\%$ of span, terminal point (0.13% BFS) (0.13% BFS)
Case Size: 76 mm (3"), 114 mm (4.5")
Case Material: 3" stainless steel, 4.5" fiberglass-reinforced thermoplastic
Case Encl. Rating: Weatherproof, NEMA 4 (IP65)
Wetted Materials: 17-4 SS (sensor), 316 SS (socket)
Socket Size: Standard ¼ NPT
Custom: ½ NPT, JIS, DIN, SAE, (½ NPT only with 4.5" case, others on application). Consult Engineering to order custom socket.

Socket Connection: Lower (standard); 3, 9 and 12 o'clock optional

Operating Temp: 10 to 60°C (14 to 140°F)

Temp Error: (Zero and span) 0.08%/°C (0.04%/°F) (<0.04%/°C typical)

Storage Temp: -20 to 70°C (-4 to 158°F)

Display: 5-digit LCD

Character Height:

3" Case: 15 mm (0.60")

4.5" Case: 22 mm (0.88")

Backlite: Standard

Bar Graph: Standard

Battery Life: 3" > 1000 hr, 4.5" > 3600 hr

INDUSTRIAL DIGITAL PRESSURE GAUGES DC-, LOOP-, OR BATTERY-POWERED MODELS

Keypad Functions:

On/Off: Manually turns unit on and off (auto-off options in menu)

Zero/Clear: Zeros display or clears min and max values when displayed

Min/Max (Down) Arrow Key: Stores min and max values, arrow key allows for scrolling menu items

Menu Key: Provides access to menu options

Backlit (Up) Arrow Key

Manually turns backlight on and off (auto-off options in menu); arrow key allows for 5 menu options. (Up) arrow key allows for scrolling menu options.

Enter: Selects items in the menu

Menu Mode:

Engineering Units: 10 units of measurement are available: psi, inH₂O (with three temp options: 20°C, 60°F, 4°C), ftH₂O, mPa, mbar, kPa, kg/cm², bar, inHg and mmHg

Configuration Mode: (Config) Allows for changes to default settings of gauge, including zero disable feature

Bar Graph: (Graph) Allows for adjustment of bar graph and 4 to 20 mA (optional feature)

Auto Off (5 Options): (Off) allows for changes to auto-off of gauge: never, 2 min, 5 min, 15 min, 30 min

Update Rate (4 Options): (Update) 100 ms, 200 ms, 500 ms, 1 s

Dampening (6 Options): (Damp) None, average, 2, 4, 6, 8 times per 100 ms

Backlite (5 Options): Never, 10 s, 30 s, 1 min, 5 min

Field Recalibration: Allows for recalibration of zero, midscale and span (password protected)

Power Options:

DC Power: 12 to 36 Vdc, 2 VA max

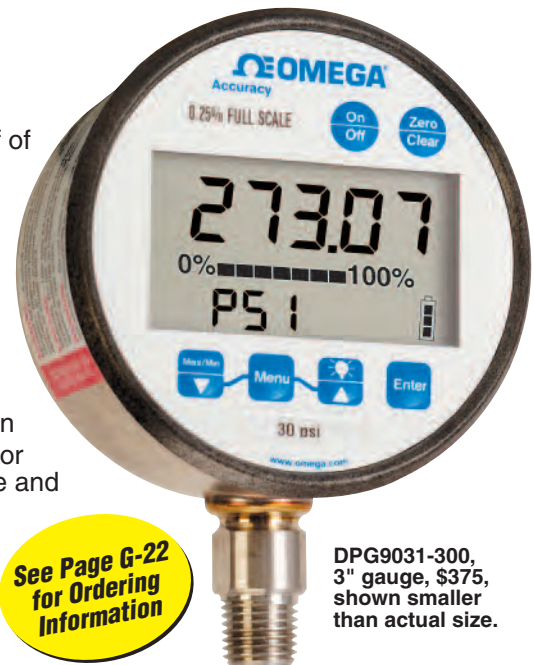
Loop Power: 12 to 36 Vdc

Electrical Rating on Optional Switch:

(Option S1 or S2 DPG9200 series only) (1) or (2) SPDT switches; 30 Vdc 1 A max, 125 Vac 5 A (switches adjustable to 100% of range)

Backlit Display: Models 9x30 and 9x45

Battery Back-Up: Models 9130, 9230, 9145, 9245



DPG9031-300, 3" gauge, \$375, shown smaller than actual size.

Six Styles to Fit All Your Application Needs!

Power	4½" Case	3" Case
Battery	DPG904x	DPG903x
Loop	DPG914x	DPG913x
DC	DPG924x	DPG923x

User-Selectable Units*

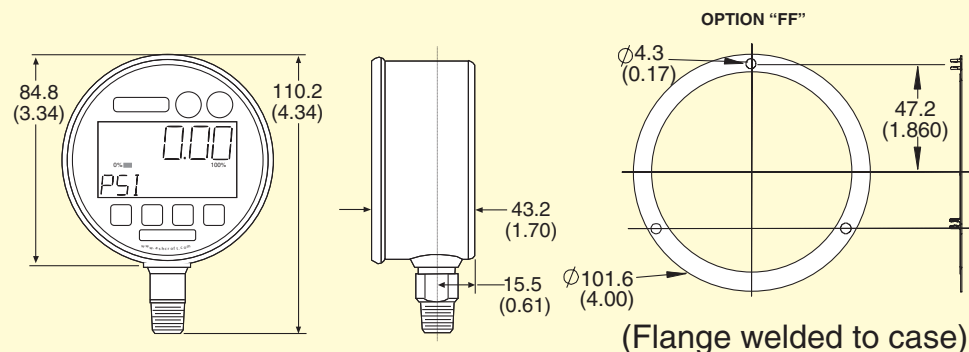
psi	inHg (Vacuum)	Comp. (psi)	mmHg (Pressure)	inHg (Pressure)	inH ₂ O	mbar	ftH ₂ O	MPa	kPa	bar/ KSC
15	30	Vac/15	800	30	400	1000	60	1.0	100	1.0
30		Vac/30	1000	60	800	1500	160	1.6	160	1.6
60		Vac/60	2000	100	1000	2000	200	2.5	250	2.5
100		Vac/100	3000	160		2500	300	4	400	4
160			5000	200		4000	400	6	600	6
200			10,000	300		5000	600	10	1000	10
300				400		6000	1000	16	1600	16
600				600		10,000		25	2500	25
800				800		15,000		40	4000	40
1000						20,000		60	6000	60
1500								100	10,000	100
2000								160	16,000	160
3000									25,000	250
5000									40,000	400
8000									60,000	600
10,000									100,000	1000
15,000										
20,000										

INDUSTRIAL DIGITAL PRESSURE GAUGES DC-, LOOP-, OR BATTERY-POWERED MODELS

INDUSTRIAL DIGITAL GAUGE DIMENSION DRAWINGS

Dimensions: mm (in) Ø = diameter

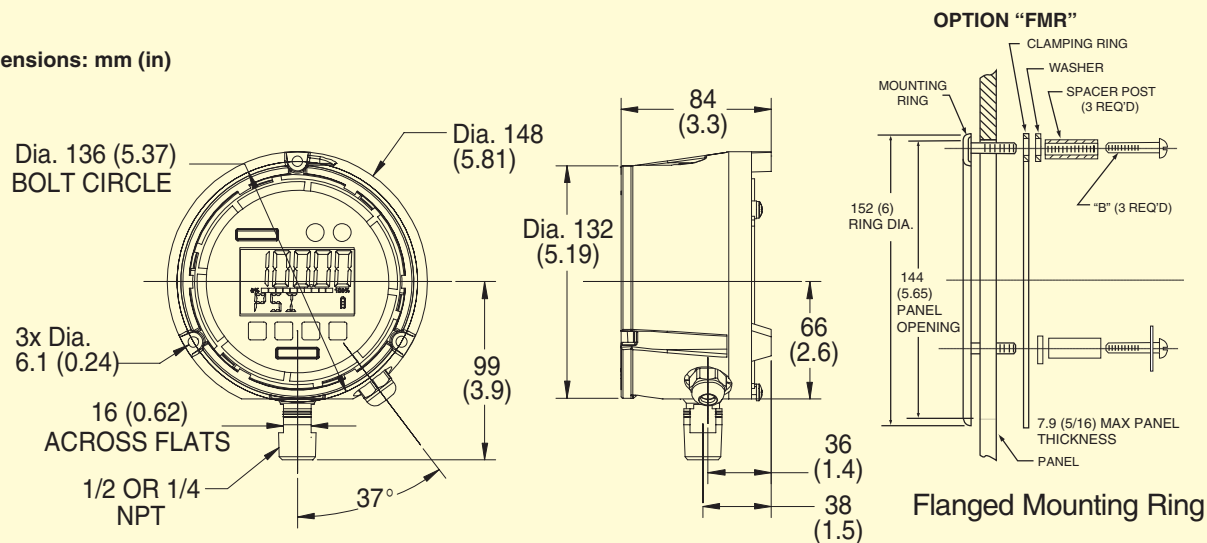
DPG903x (battery), DPG913x (loop), DPG923x (DC), 3" stainless steel case



INDUSTRIAL DIGITAL GAUGE DIMENSION DRAWINGS

DPG904x (battery), DPG914x (loop), DPG924x (DC), 4 1/2" fiberglass-reinforced thermoplastic case

Dimensions: mm (in)



ORDER SUFFIX	ADD'L PRICE (3" CASE)	ADD'L PRICE (4" CASE)	DESCRIPTION
-A	\$80	\$80	4 to 20 mA output (DPG9200 series only)
-S1	85	85	1 SPDT switch (DPG9200 series only)
-S2	125	125	2 SPDT switches (DPG9200 series only)
-X6B	65	65	Cleaned for oxygen service
-RB	12	—	Protective rubber boot (black) (3" only)
-FC	10	—	Protective front cover (SS) (3" only)
-FF	30	—	Welded flush mount flange (3" only)
-FMR	—	55	Flanged mounting ring (4" only)

ACCESSORY

MODEL NUMBER	PRICE	DESCRIPTION
DPG7000-ABS-CASE	\$140	Weatherproof ABS carrying case (3" only)

* Order psi range closest to the full scale range of the units desired. The units selection is programmable via the front-panel buttons.

Recommended Reference Book:
Food Process Engineering,
CH-5607, \$130
Visit omega.com/bobi
for Additional Books



INDUSTRIAL DIGITAL PRESSURE GAUGES DC-, LOOP-, OR BATTERY-POWERED MODELS

**MOST POPULAR
MODELS HIGHLIGHTED!**

PRESSURE
GAUGES
G

To Order (Specify Model Number)

3" CASE	DPG9031 BASE MODEL	DPG9030 BACKLIT	4½" CASE	DPG9046 BASE MODEL	DPG9045 BACKLIT	RANGE	
						psig	bar
BATTERY POWERED MODELS - ¼ NPT LOWER CONNECTION							
DPG903[*]-VAC	\$375	\$425	DPG904[*]-VAC	\$475	\$520	0 to -14.7	0 to -1
DPG903[*]-VAC/15	375	425	DPG904[*]-VAC/15	475	520	-14.7 to 15	-1 to 1
DPG903[*]-VAC/30	375	425	DPG904[*]-VAC/30	475	520	-14.7 to 30	-1 to 2
DPG903[*]-15	375	425	DPG904[*]-15	475	520	0 to 15	0 to 1
DPG903[*]-30	375	425	DPG904[*]-30	475	520	0 to 30	0 to 2
DPG903[*]-60	375	425	DPG904[*]-60	475	520	0 to 60	0 to 4
DPG903[*]-100	375	425	DPG904[*]-100	475	520	0 to 100	0 to 7
DPG903[*]200	375	425	DPG904[*]200	475	520	0 to 200	0 to 13
DPG903[*]-300	375	425	DPG904[*]-300	475	520	0 to 300	0 to 20
DPG903[*]-600	375	425	DPG904[*]-600	475	520	0 to 600	0 to 41
DPG903[*]-1K	375	425	DPG904[*]-1K	475	520	0 to 1000	0 to 69
DPG903[*]-2K	375	425	DPG904[*]-2K	475	520	0 to 2000	0 to 138
DPG903[*]-3K	375	425	DPG904[*]-3K	475	520	0 to 3000	0 to 207
DPG903[*]-5K	375	425	DPG904[*]-5K	475	520	0 to 5000	0 to 345
DPG903[*]-10K	375	425	DPG904[*]-10K	475	520	0 to 10,000	0 to 690
3" CASED	DPG9131 BASE MODEL	DPG9130 BACKLIT, BATTERY BACKUP	4½" CASE	DPG9146 BASE MODEL	DPG9145 BACKLIT, BATTERY BACKUP	RANGE	
						psig	bar
LOOP POWERED MODELS - ¼ NPT Lower Connection							
DPG913[*]-VAC	\$435	\$515	DPG914[*]-VAC	\$540	\$620	0 to -14.7	0 to -1
DPG913[*]-VAC/15	435	515	DPG914[*]-VAC/15	540	620	-14.7 to 15	-1 to 1
DPG913[*]-VAC/30	435	515	DPG914[*]-VAC/30	540	620	-14.7 to 30	-1 to 2
DPG913[*]-15	435	515	DPG914[*]-15	540	620	0 to 15	0 to 1
DPG913[*]-30	435	515	DPG914[*]-30	540	620	0 to 30	0 to 2
DPG913[*]-60	435	515	DPG914[*]-60	540	620	0 to 60	0 to 4
DPG913[*]-100	435	515	DPG914[*]-100	540	620	0 to 100	0 to 7
DPG913[*]200	435	515	DPG914[*]200	540	620	0 to 200	0 to 13
DPG913[*]-300	435	515	DPG914[*]-300	540	620	0 to 300	0 to 20
DPG913[*]-600	435	515	DPG914[*]-600	540	620	0 to 600	0 to 41
DPG913[*]-1K	435	515	DPG914[*]-1K	540	620	0 to 1000	0 to 69
DPG913[*]-2K	435	515	DPG914[*]-2K	540	620	0 to 2000	0 to 138
DPG913[*]-3K	435	515	DPG914[*]-3K	540	620	0 to 3000	0 to 207
DPG913[*]-5K	435	515	DPG914[*]-5K	540	620	0 to 5000	0 to 345
DPG913[*]-10K	435	515	DPG914[*]-10K	540	620	0 to 10,000	0 to 690
3" CASE	DPG9231 BASE MODEL	DPG9230 BACKLIT, BATTERY BACKUP	4½" CASE	DPG9246 BASE MODEL	DPG9245 BACKLIT, BATTERY BACKUP	RANGE	
						psig	bar
DC POWERED MODELS - ¼ NPT LOWER CONNECTION							
DPG923[*]-VAC	\$435	\$480	DPG924[*]-VAC	\$540	\$585	0 to -14.7	0 to -1
DPG923[*]-VAC/15	435	480	DPG924[*]-VAC/15	540	585	-14.7 to 15	-1 to 1
DPG923[*]-VAC/30	435	480	DPG924[*]-VAC/30	540	585	-14.7 to 30	-1 to 2
DPG923[*]-15	435	480	DPG924[*]-15	540	585	0 to 15	0 to 1
DPG923[*]-30	435	480	DPG924[*]-30	540	585	0 to 30	0 to 2
DPG923[*]-60	435	480	DPG924[*]-60	540	585	0 to 60	0 to 4
DPG923[*]-100	435	480	DPG924[*]-100	540	585	0 to 100	0 to 7
DPG923[*]200	435	480	DPG924[*]200	540	585	0 to 200	0 to 13
DPG923[*]-300	435	480	DPG924[*]-300	540	585	0 to 300	0 to 20
DPG923[*]-600	435	480	DPG924[*]-600	540	585	0 to 600	0 to 41
DPG923[*]-1K	435	480	DPG924[*]-1K	540	585	0 to 1000	0 to 69
DPG923[*]-2K	435	480	DPG924[*]-2K	540	585	0 to 2000	0 to 138
DPG923[*]-3K	435	480	DPG924[*]-3K	540	585	0 to 3000	0 to 207
DPG923[*]-5K	435	480	DPG924[*]-5K	540	585	0 to 5000	0 to 345
DPG923[*]-10K	435	480	DPG924[*]-10K	540	585	0 to 10,000	0 to 690

[*] 3" Gauges: Insert "1" for base model or "0" for backlit display model, 4½" Gauges: Insert "6" for base model or "5" for backlit display model.

Ordering Examples: DPG9131-100, 3" loop powered gauge, ¼ NPT lower fitting, 0 to 100 psi range, \$435.

DPG9045-300, 4½" battery powered gauge, ¼ NPT lower fitting, 0 to 300 psi range, with backlit display, \$520.

DPG9245-1K-A, 4½" DC powered gauge, ¼ NPT lower fitting, 0 to 1000 psi range, with backlit display and 4 to 20 mA output, \$585 +70 = \$655.



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