



MPG2000BBL D4-M2 Min/Max Intrinsically Safe Battery-Powered Digital Pressure Gauges

Meriam.com

- ▲ Selectable Units, Min/Max, Shutoff Time
- ▲ Easy Keypad Setup and Zero
- ▲ ±0.25% Test Gauge Accuracy
- ▲ 316L Stainless Steel Sensor
- ▲ All Metal Housing

Meriam MPG2000BBL series digital pressure gauges successfully address the modern demands of process pressure measurement in hazardous locations.

Standard features include min/max capture, zeroing on gauge reference ranges, selectable engineering units, pass code protection, adjustable display shutoff time, field recalibration and a ruggedized all-metal housing.

Typical applications are instrumentation and control in the process industries, hydraulics, pneumatics, industrial gases, and OEM applications.

Agency Approval

Factory Mutual Approved Intrinsically Safe for Hazardous Locations USA & Canada
 Class I, Division 1, Groups A, B, C, D
 T3C Ta = -40 to 82°C; T4 Ta = -40 to 66°C,
 CL 1 Zone 0 AEx/Ex ia IIC
 T3 Ta = -40 to 82°C; T4 Ta = -40 to 66°C

Ranges and Resolution

See table below. Units may be changed to any listed with same sensor range. Fixed resolution.

Accuracy (Includes linearity, hysteresis, repeatability)
 Standard: ±0.25% of full scale ±1 least significant digit
 HA option: ±0.1% FS ±1 LSD (see table for availability)

Display

3 readings per second nominal display update rate
 4 digit LCD, 0.5" H and 5 character 0.25" H alphanumeric
 Red LED backlight

Batteries

Two 1.5 V AAA Panasonic LR03 alkaline cells
 Approx. 150 to 1000 hours depending on backlight usage
 Low battery symbol on display

Controls and Functions

Center button turns gauge on or off, hold to zero gauge reference models, activate backlighting for 1 min. if low light detected, cycle through min/max functions.

- ▲ (Units) increase settings, engineering unit selection
 - ▼ (Time) decrease settings, auto shutoff time selection
- Internal lockout switch: disable setup and calibration.

Auto Shutoff

Default 5 minutes. Selectable 1 minute to 8 hrs or on/off.

Min/ Max Memory

Min/max can be user configured to be individually enabled or disabled, saved or cleared at power off

Pass Code Protected Calibration

Non-interactive zero, span, and linearity, ±10% of range



Overpressure, Burst, Vacuum

2 X pressure range for 3 psi to 2000 psi sensors
 5000 psig for ranges using 3000 psig sensor
 7500 psig for ranges using 5000 psig sensor
 Over-range and under-range display warnings
 Vacuum service: 15 psig, 15 psia, 30 psia, 100 psig,
 100 psia, 200 psig
 Burst: 4 X pressure rating or 10,000 psi, whichever is less

Weight

9 ounces (approx.), shipping wt. 1 pound (approx.)

Housing Materials and Circuit Board Protection

Epoxy powder coated aluminum case, rear cover, and bezel. Rubber gaskets, polycarbonate label. Reinforced sensor area. Moisture resistant circuit board coating.

Connection and Material

1/4" NPT male fitting, 316L stainless steel wetted parts

Temperature Ranges

Compensated: 32 to 158°F (0 to 70°C)
 Storage: -40 to 203°F (-40 to 95°C)
 Operating: -40 to 180°F (-40 to 82°C)

How to Specify

MPG2000BBL range -D4-M2 - options

Range—see table at left

psi = PSI	kg/cm ² = KGCM
inHg = INHG	g/cm ² = GCM
oz/in ² = ZIN	kPa = KPA
inH ₂ O = INH2O	MPa = MPA
ftH ₂ O = FTH2O	mbar = MBAR
mmHg = MMHG	bar = BAR
torr = TORR	cmH ₂ O = CMH2O
mmH ₂ O = MMH2O	atm = ATM

G = gauge reference pressure
 CPD = compound; inHg vacuum, psi pressure
 VAC = gauge reference vacuum
 A = absolute reference

Any range may be ordered as the default engineering unit. If vacuum gauge requires a minus sign, please specify. The listed ranges are rounded off.

Optional—add to end of model number

HA	High accuracy, ±0.1% FS ±1 LSD.
	Not available with 3 psi, 5 psi, bipolar, or vacuum sensors. See table at left for availability.

Sensors

NC	5 point NIST traceability certificate, test data and date
RRB	Protective rubber boot



Example: MPG2000BBL300PSIG-D4-M2-HA

Battery powered, backlit display, 0-300.0 psig, 4 digit display, min/max memory, high accuracy
 Gauge model number may vary from part number ordered.

Sensor Ranges and Engineering Units		* -HA option not available							
3 psig *	Res	15 psig vac *	Res	30 psia	Res	-15V100psig *	Res	300 psig	Res
3PSIG	.001	100KPAVAC	.1	2KGCMA	.001	100PSIVAC	.1	300PSIG	.1
6INHG	.001	0.1MPAVAC	.0001	2ATMA	.001	100PSICPD	.1	610INHG	.1
85INH2OG	.1	1BARVAC	.001	30 psig	Res	200INHG	.1	4800ZING	.1
50ZING	.01	1KGCMAVAC	.01	30PSIG	.01	2770INH2OVAC	.1	700FTH2O	.1
210GCMG	.1	1ATMVAC	.001	60INHG	.01	1600ZINVAC	1	2000KPAG	1
150MMHG	.1	15 psig	Res	850INH2OG	1	5200MMHG	1	2MPAG	.001
150TORR	.1	15PSIG	.01	480ZING	.1	5200TORR	1	20BARG	.01
200MBARG	.1	30INHG	.01	2100GCMG	1	700KPAVAC	1	20KGCMA	.01
200CMH2OG	.1	400INH2OG	.1	1600MMHG	1	0.7MPAVAC	.001	20ATMG	.01
2000MMH2OG	1	240ZING	.1	1600TORR	1	7BARVAC	.01	500 psig	Res
7FTH2O	.001	1000GCMG	1	2000MBARG	1	7KGCMA	.01	500PSIG	.1
20KPAG	.01	760MMHG	.1	2100CMH2OG	1	7ATMVAC	.01	1020INHG	1
5 psig *	Res	760TORR	.1	70FTH2O	.01	100 psig	Res	1150FTH2O	1
5PSIG	.001	1000MBARG	1	200KPAG	.1	100PSIG	.1	3500KPAG	1
10INHG	.01	1000CMH2OG	1	0.2MPAG	.0001	200INHG	.1	3.5MPAG	.001
140INH2OG	.1	35FTH2O	.01	2BARG	.001	2770INH2OG	1	35BARG	.01
80ZING	.1	100KPAG	.1	2KGCMA	.001	1600ZING	1	35KGCMA	.01
350GCMG	.1	0.1MPAG	.0001	2ATMG	.001	7000GCMG	1	35ATMG	.01
260MMHG	.1	1BARG	1	60 psig	Res	5200MMHG	1	1000 psig	Res
260TORR	.1	1KGCMA	1	60PSIG	.01	5200TORR	1	1000PSIG	1
350MBARG	.1	1ATMG	1	120INHG	.1	7000MBARG	1	2040INHG	1
350CMH2OG	.1	±15 psig *	Res	1660INH2OG	1	7000CMH2OG	1	2300FTH2O	1
3500MMH2OG	1	±15PSIVAC	.01	960ZING	1	230FTH2O	.1	7000KPAG	1
12FTH2O	.01	15PSICPD	.01	4200GCMG	1	700KPAG	.1	7MPAG	.001
35KPAG	.01	±30INHG	.01	3100MMHG	1	0.7MPAG	.0001	70BARG	.01
15 psia	Res	±400INH2OVAC	1	3100TORR	1	7BARG	.001	70KGCMA	.01
15PSIA	.01	±240ZINVAC	.1	4100MBARG	1	7KGCMA	.001	70ATMG	.01
30INHGA	.01	±1000GCMVAC	1	4200CMH2OG	1	7ATMG	.001	2000 psig	Res
400INH2OA	.1	±760MMHG	1	140FTH2O	.1	-15V200 psig *	Res	2000PSIG	1
240ZINA	.1	±760TORR	1	400KPAG	.1	200PSIVAC	.1	4070INHG	1
1000GCM	1	±1000MBARVAC	1	0.4MPAG	.0001	200PSICPD	.1	4600FTH2O	1
760MMHGA	.1	±1000CMH2OVAC	1	4BARG	.001	400INHG	.1	14MPAG	.01
760TORRA	.1	±100KPAVAC	.1	4KGCMA	.001	5500INH2OVAC	1	140BARG	.1
1000MBARA	1	±0.1MPAVAC	.0001	4ATMG	.001	3200ZINVAC	1	140KGCMA	.1
1000CMH2OA	1	±1BARVAC	.001	100 psia	Res	1400KPAVAC	1	140ATMG	.1
100KPAA	.1	±1KGCMAVAC	.001	100PSIA	.1	1.4MPAVAC	.001	3000 psig	Res
0.1MPAA	.0001	±1ATMVAC	.001	200INHGA	.1	14BARVAC	.01	3000PSIG	1
1BARA	.001	30 psia	Res	2770INH2OA	1	14KGCMAVAC	.01	6100INHG	1
1KGCMA	.001	30PSIA	.01	1600ZINA	1	14ATMVAC	.01	6900FTH2O	1
1ATMA	.001	60INHGA	.01	7000GCM	1	200 psig	Res	20MPAG	.01
15 psig vac *	Res	850INH2OA	1	5200MMHGA	1	200PSIG	.1	200BARG	.1
15PSIVAC	.01	480ZINA	.1	5200TORRA	1	400INHG	.1	200KGCMA	.1
30INHG	.01	2100GCM	1	7000MBARA	1	5500INH2OG	1	200ATMG	.1
400INH2OVAC	.1	1600MMHGA	1	7000CMH2OA	1	3200ZING	1	5000 psig	Res
240ZINVAC	.1	1600TORRA	1	700KPAA	.1	480FTH2O	.1	5000PSIG	1
1000GCMVAC	.1	2000MBARA	1	0.7MPAA	.0001	1400KPAG	1	35MPAG	.01
760MMHG	.1	2100CMH2OA	1	7BAR	.001	1.4MPAG	.001	350BARG	.1
760TORRVAC	.1	200KPAA	.1	7KGCMA	.001	14BARG	.01	350KGCMA	.1
1000MBARVAC	1	0.2MPAA	.0001	7ATMA	.001	14KGCMA	.01	340ATMG	.1
1000CMH2OVAC	1	2BARA	.001	14ATMG	.01	14ATMG	.01		