



MGF16BN Battery-Powered Digital Pressure Gauges

- $\pm 0.25\%$ Test Gauge Accuracy
- 316L Stainless Steel Wetted Parts
- NEMA 4X
- Capture Minimum and Maximum Readings
- Push Button Zero
- Selectable Engineering Units
- Selectable Auto Shutoff Times

The Meriam Instrument MGF16BN digital pressure gauge successfully addresses the modern demands of process pressure measurement. Pressure ranges are available to 5,000 PSIG at standard accuracy of $\pm 0.25\%$ of full scale and optional accuracy of $\pm 0.1\%$ of full scale. Compound gauges that can be used for positive pressure measurements and vacuum measurements are also available.

The display is a $4\frac{1}{2}$ digit LCD with 0.5" high numerals and a lower alphanumeric display for engineering units and to aid in set up. Each gauge includes up to 15 field selectable engineering units depending on the sensor range. The selectable units include PSIG, kiloPascals, megaPascals, millibar, bar, atmospheres, kilograms per square centimeter, grams per square centimeter, centimeters of water, ounces per square inch, feet of water, inches of water, millimeters of mercury, Torr, and inches of mercury.

Other standard features include min/max capture, zeroing, pass code program lock-out, adjustable display shutoff time and field recalibration. The housing is ABS/polycarbonate and is NEMA 4X rated. Wetted components are 316L stainless steel for compatibility with many process fluids. Process connection is via a 1/4" MNPT 316L stainless steel fitting. The gauge is powered by two AA alkaline batteries.

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



ACCURACY

Standard: $\pm 0.25\%$ of full scale ± 1 least significant digit
includes linearity, hysteresis, repeatability

Optional: -HA $\pm 0.1\%$ FS ± 1 LSD
-NC NIST traceable test report and calibration data

DISPLAY

3 readings per second nominal display update rate
 $4\frac{1}{2}$ digit LCD, 0.5" H, 5 character 0.25" H alphanumeric lower display

CONTROLS & FUNCTIONS

Front button turns gauge on or off, zeros gauge, and cycles through min/max functions
Internal push buttons for selection of engineering units, selection of auto shutoff times, and calibration

CALIBRATION

Pass code protected calibration
Non-interactive zero, span, and linearity, $\pm 10\%$ of range

AUTOMATIC SHUTOFF

5 minute default
User selectable times ranging from 1 minute to 8 hours or front button on/off

POWER

2 AA alkaline batteries
Approximately 2000 hours battery life
Low battery symbol on display when batteries must be replaced

WEIGHT

Gauge: 9 ounces (approximately)
Shipping weight: 1 pound (approximately)

MATERIAL

ABS/polycarbonate NEMA 4X case, rear gasket, polycarbonate label

CONNECTION SIZE

1/4" NPT male, 316L SS

MATERIAL, MEDIA COMPATIBILITY

All wetted parts are 316L SS, compatible with most liquids and gases

OVERPRESSURE

3000 psig range: 5000 psig
5000 psig range: 7500 psig
All others: 2 x pressure range
112.5% FS out-of-range display: $1---$ or $1-.-.-$ depending on model

BURST PRESSURE

4 times sensor pressure rating, or 10,000 psi, whichever is less

ENVIRONMENTAL

Storage temperature: -40 to 203°F (-40 to 95°C)
Operating temperature: -4 to 185°F (-20 to 85°C)
Compensated temperature: 32 to 158°F (0 to 70°C)

RANGES	$\pm 0.25\%$ FS MODELS	$\pm 0.1\%$ FS MODELS	SELECTABLE ENGINEERING UNITS
-30.0 inHg to 15.0 PSIG	MGF16BN-30V15PSIG		InHg/PSI, can be user reconfigured as a bipolar gauge with selectable units
-30.0 inHg to 100.0 PSIG	MGF16BN-30V100PSIG		InHg/PSI, can be user reconfigured as a bipolar gauge with selectable units
-30.0 inHg to 200.0 PSIG	MGF16BN-30V200PSIG		InHg/PSI, can be user reconfigured as a bipolar gauge with selectable units
0 - 5.000 PSIG	MGF16BN5PSIG	MGF16BN5PSIG-HA	PSIG, kPa, mbar, bar, atm, kg/cm ² g/cm ² , cmH ₂ O, oz/in ² , ftH ₂ O, inH ₂ O, mmHg, torr, mmH ₂ O, inHg
0 - 15.00 PSIG	MGF16BN15PSIG	MGF16BN15PSIG-HA	PSIG, kPa, MPa, mbar, bar, atm, kg/cm ² g/cm ² , cmH ₂ O, oz/in ² , ftH ₂ O, inH ₂ O, mmHg, torr, inHg
0 - 60.00 PSIG	MGF16BN60PSIG	MGF16BN60PSIG-HA	PSIG, kPa, MPa, mbar, bar, atm, kg/cm ² g/cm ² , cmH ₂ O, oz/in ² , ftH ₂ O, inH ₂ O, mmHg, torr, inHg
0 - 100.0 PSIG	MGF16BN100PSIG	MGF16BN100PSIG-HA	PSIG, kPa, MPa, mbar, bar, atm, kg/cm ² g/cm ² , cmH ₂ O, oz/in ² , ftH ₂ O, inH ₂ O, mmHg, torr, inHg
0 - 200.0 PSIG	MGF16BN200PSIG	MGF16BN200PSIG-HA	PSIG, kPa, MPa, bar, atm, kg/cm ² oz/in ² , ftH ₂ O, inH ₂ O, inHg
0 - 300.0 PSIG	MGF16BN300PSIG	MGF16BN300PSIG-HA	PSIG, kPa, MPa, bar, atm, kg/cm ² oz/in ² , ftH ₂ O, inHg
0 - 500.0 PSIG	MGF16BN500PSIG	MGF16BN500PSIG-HA	PSIG, kPa, MPa, bar, atm, kg/cm ² ftH ₂ O, inHg
0 - 1000 PSIG	MGF16BN1000PSIG	MGF16BN1000PSIG-HA	PSIG, kPa, MPa, bar, atm, kg/cm ² ftH ₂ O, inHg
0 - 2000 PSIG	MGF16BN2000PSIG	MGF16BN2000PSIG-HA	PSIG, MPa, bar, atm, kg/cm ² , ftH ₂ O, inHg
0 - 3000 PSIG	MGF16BN3000PSIG	MGF16BN3000PSIG-HA	PSIG, MPa, bar, atm, kg/cm ² , ftH ₂ O, inHg
0 - 5000 PSIG	MGF16BN5000PSIG	MGF16BN5000PSIG-HA	PSIG, MPa, bar, atm, kg/cm ²
Optional for all Models	NC	NC	NIST traceability certificate with 5 test points and data