



MediaGauge™ MGA-9V Digital Pressure Gauge

PRODUCT OVERVIEW

The MediaGauge™ model MGA-9V is a NEMA 4X rated stand alone 9V battery operated multi-functional digital pressure gauge. The MGA-9V digital pressure gauge consist of a piezoresistive pressure sensing element, signal conditioning circuitry for temperature an calibration compensation, a 304L stainless steel pressure port and a LCD back lit display. The MGA-9V has an accuracy of $\pm 1.0\%$ full scale and is a lower cost digital gauge for use in dry air applications only.

The MGA-9V comes standard with a variety of keypad functions - multiple pressure unit display readings (PSI, BAR, MPA); memory storage of maximum peak pressure reading and zero adjustment.

The MediaGauge™ MGA-9V digital pressure gauge has better accuracy, longer life and multiple standard functions which make it a better choice than mechanical pressure gauges. These compact 2.5 inch robust gauges measure pressures from 30 PSI to 300 PSI.



FEATURES & BENEFITS

- **Accuracy:** $\pm 1.0\%$ full scale
- Pressure ranges from 30 to 300 PSI
- Media isolated
- Multiple standard functions
- NIST certificates available
- NEMA 4X rating
- Battery power saver mode
- Robust packaging

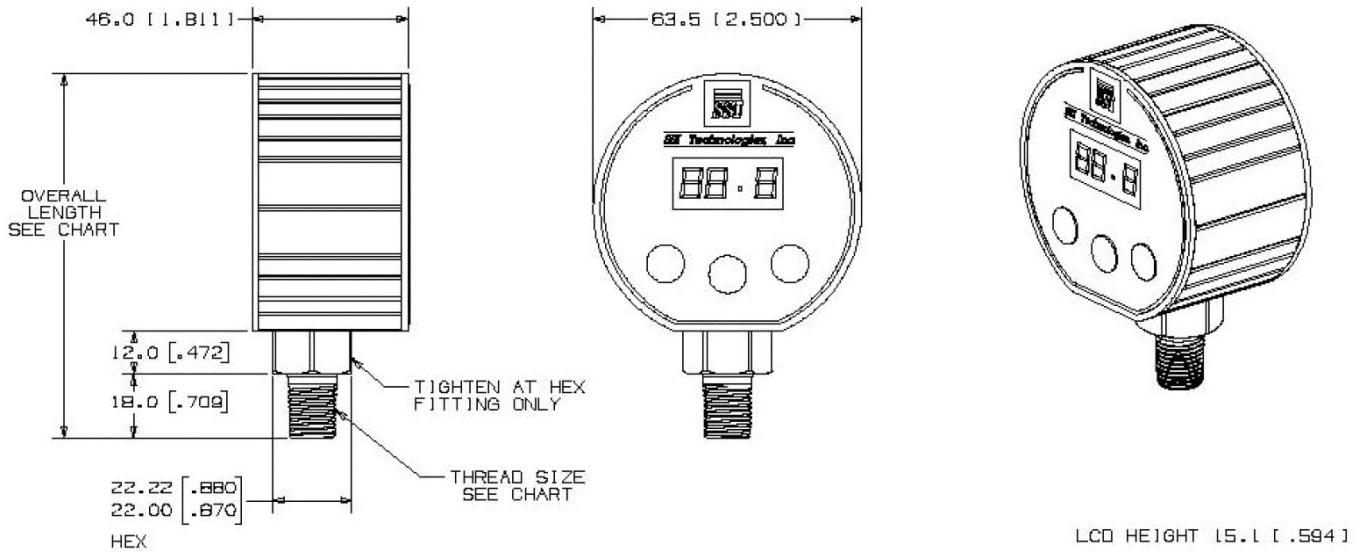
TYPICAL APPLICATIONS

- General Purpose
- Test & Measurement
- Process Control
- MRO
- Compressors
- Pneumatics
- Flow
- Robotics
- Agriculture
- Hydrogen Storage

MGA-9V MediaGauge™ Digital Pressure Gauge

| DISPLAY AND CASE SPECIFICATIONS | |
|---|---|
| View Angle | 45 degrees (typical) |
| Backlight | Yellow-Green backlight |
| LCD display | 4 Digits TN LCD |
| Character Height | 11.5mm |
| LCD Resolution (30 PSI) | 0.01 |
| LCD Resolution (100; 300 PSI) | 0.1 |
| Keypad Functions: | PSI, BAR, MPA, Peak Hold, Zero Adjustment |
| On / Unit / Off | Power on; Unit selection; Power off |
| Light / P-H | Turn the backlight on/off; Show PeakHold reading |
| Reset / Clear | Re-zero; Clear PeakHold reading |
| Engineering Units | PSI, BAR, MPA (PSI,Ft.Hd,MPA for MGA-9V-F) |
| Enclosure Material | 2.5" with black ABS Thermoplastic case with rubber boot |
| Enclosure Rating | IP40 |
| Protective Boot | Available - PN 24610.1 |
| Media Compatibility | Non-corrosive gases and dry air |
| Connection | 22 mm 1/4 - 18 NPT |
| ELECTRICAL AND PERFORMANCE SPECIFICATIONS | |
| Range | 30, 100, 300 PSI |
| Accuracy | ± 1.0 % FS |
| Proof Pressure | 2X Full Scale |
| Burst Pressure | 3X Full Scale |
| Battery | 9V Battery |
| Battery Life | 50 hours |
| Battery Saver Mode | 5 minutes |
| Battery Life Indicaator | No |
| Response Time | < 1ms |
| Update Rate | 4x per second |
| Stability | < 0.25% FS/Year (Typical) |
| Operating Temperature | -10°C to 60°C |
| Storage Temperature | -20°C to 70°C |
| ENVIRONMENTAL AND MECHANICAL SPECIFICATIONS | |
| Cycle Life | > 1.8 million cycles (0 to FS @ Hz and -20°C to 85°C) |
| Vibration | 144 Hours (100 to 2000Hz, 20g sinusodial in 3 axis) |
| Shock | 250 Cycles (85°C to -20°C, 0.5 soaks at temperature) |
| Torque Spec | 150 lbs, ±1 lb, DO NOT OVER TIGHTEN |
| Agency Approvals | NEMA 4X, RoHS, REACH |
| NIST Certification | Available |

DIMENSIONAL DRAWINGS



DIGITAL PRESSURE GAUGE ORDERING SYSTEM

PART #: MGA-300-A-9V-R

| MGA | 300 | A | 9V | R | | | | |
|---------------|--|--|---------------------|-------------|--------|--------------|----------------------|------------------------------|
| FAMILY | PRESSURE RANGES | PORT CONFIGURATION | POWER SOURCE | ROHS | | | | |
| | <ul style="list-style-type: none"> • 30 • 100 • 300 | <table border="1"> <tr> <th>Hex</th> <th>Port</th> </tr> <tr> <td>A 22mm</td> <td>1/4 - 18 NPT</td> </tr> </table> | Hex | Port | A 22mm | 1/4 - 18 NPT | 9V Battery, Operated | All parts are RoHS compliant |
| Hex | Port | | | | | | | |
| A 22mm | 1/4 - 18 NPT | | | | | | | |

RUBBER BOOT OPTIONS

Protective Boot PN 24610.1



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NOTE

Specs are subject to change without notice.