



MediaGauge™ MG-9V Digital Pressure Gauge

PRODUCT OVERVIEW

The MediaGauge™ model MG-9V digital pressure gauge is a stand alone 9V battery operated multi-functional digital pressure gauge. The MG-9V contains a media isolated piezoresistive pressure sensing element, signal conditioning circuitry for temperature and calibration compensation, a 304L stainless steel input port and a LCD back lit display. The MG-9V digital pressure gauge has an accuracy of ± 0.25 full scale. A battery power saver mode is incorporated into the MG-9V to automatically shut the LCDE display off after 5 minutes prolonging the battery's life.

The MG-9V digital pressure gauge comes standard with a variety of keypad operated function - multiple pressure unit display reading (PSI, BAR, MPA); memory storage of maximum peak pressure reading; and zero adjustment. A Ft of Head measurement display is available as an option for the MG-9V model.

The MG-9V digital pressure gauge is made of all laser-welded 304L and 316L stainless steel for optimal media isolation and usage in a wide variety of media. These compact, 3-inch robust gauges measure pressures from 5 PSI to 5000 PSI and are well suited for a variety of industrial and commercial applications.

The MediaGauge™ MG-9V digital pressure gauge has better accuracy, longer life and multiple standard functions which make it a better choice than mechanical pressure gauges.

FEATURES & BENEFITS

- Superb accuracy $\pm 0.25\%$ full scale
- Pressure ranges from 5 to 5000 PSI
- Media isolated
- Multiple standard functions
- NIST certificates available
- NEMA 4X rating
- Battery power saver mode
- Ft of Head measurement available

TYPICAL APPLICATIONS

- General Purpose
- Test & Measurement
- Process Control
- MRO
- Water Management
- Compressors
- Refrigeration
- Fuel Cells
- Pumps
- Hydraulics
- Spraying Systems
- Pneumatics
- Flow
- Robotics
- Agriculture
- Hydrogen Storage



MG-9V MediaGauge™ Digital Pressure Gauge

DISPLAY AND CASE SPECIFICATIONS

View Angle	75 degrees (typical)
Backlight	White backlight
LCD display	4 Digits TN LCD
Character Height	14.9mm
LCD Resolution (5PSI)	0.001
LCD Resolution (15-75 PSI)	0.01
LCD Resolution (100-750 PSI)	0.1
LCD Resolution (1000-5000 PSI)	1
Keypad Functions:	same as item 41~43
On / Unit / Off	Power on; Unit selection; Power off
Light / Min-Max	Backlight on/off; Show Min or Max reading
Reset / Clear	Re-zero ; Change Min or Max , clear Min and Max reading
Engineering Units	PSI,BAR,kPa,MPa,In-Hg,cm-Hg, kg/cm ² ,(Ft.Hd. Only for MG-9V-F)
Enclosure Material	3" PBT front and back cover with aluminum body
Enclosure Rating	IP65
Leak Integrity	Leak rate less than 1x10 ⁻⁷ cc/sec helium@1 Atm
Protective Boot	Available, PN 14405.1
Media Compatibility	Any gas or liquid chemically compatible to 304L and 316L
Connection	22 mm 1/4 - 18 NPT

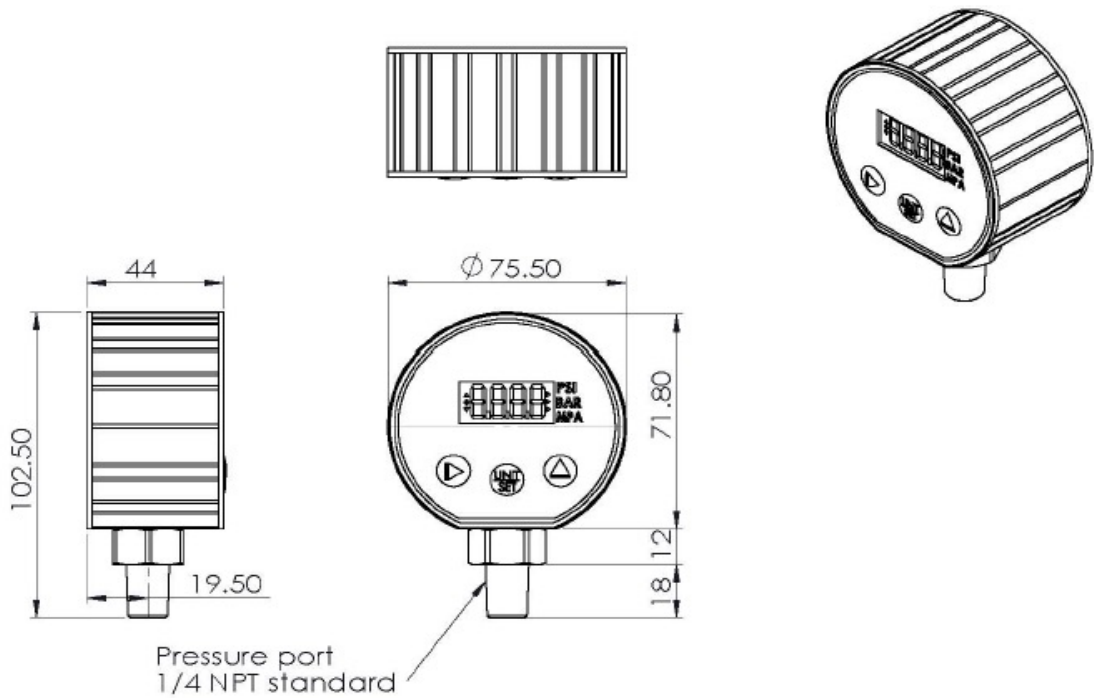
ELECTRICAL AND PERFORMANCE SPECIFICATIONS

Pressure Range	5, 15, 50, 75, 100, 200, 300, 500, 750, 1000, 1500, 2000, 3000, 5000 PSI
Accuracy (5 - 50 PSI)	± 0.5% FS
Accuracy (75-3000 psi)	± 0.25% FS
Accuracy (3001-5000 psi)	± 0.5% FS
Proof Pressure	2X Full Scale
Burst Pressure	3X Full Scale or 15,000 psi whichever is less
Battery	9V Battery
Battery Life	250 hours
Battery Saver Mode	adjustable from 5 min~60 mins , or no battery saver mode
Battery Life Indicaor	Yes
Cycle Life	> 1.8 million cycles (0 to FS @ Hz and -20°C to 85°C)
Response Time	< 1ms
Update Rate	8x per second
Stability	< 0.25% FS/Year (Typical)
Operating Temperature	-30°C to 80°C
Storage Temperature	-30°C to 80°C

ENVIRONMENTAL AND MECHANICAL SPECIFICATIONS

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 #: MG-500-A-9V-R

MG	500	A	9V	R						
FAMILY	PRESSURE RANGES	PORT CONFIGURATION	POWER SOURCE	ROHS						
	5 15 50 75 100 200 300 500 750 1000 1500 2000 3000 5000	<table><tr><th>Hex</th><th>Port</th></tr><tr><td>A 22mm</td><td>1/4 - 18 NPT</td></tr><tr><td>B 22mm</td><td>1/8 - 27 NPT</td></tr></table>	Hex	Port	A 22mm	1/4 - 18 NPT	B 22mm	1/8 - 27 NPT	9V Battery, Operated 9V-F Battery Operated with optional Ft of Head Units	All parts are RoHS compliant
Hex	Port									
A 22mm	1/4 - 18 NPT									
B 22mm	1/8 - 27 NPT									

RUBBER BOOT OPTIONS

Protective Boot PN 24610.1

Ft of Head Options
MG-100-A-9V-F-R
MG-200-A-9V-F-R
MG-300-A-9V-F-R



SSI Technologies, LLC

— an Amphenol Company —

SSI Technologies, LLC is a member of the Amphenol Sensor Technology Group (ASTG)

CONTACT

SSI Technologies, LLC

3200 Palmer Drive

Janesville, WI 53546

ssi-sensors.com

(608) 757-2000

WARRANTY

LIMITED WARRANTY: All SSI products are warranted against defective materials and workmanship for a period of one (1) year from the date of delivery to the original purchaser. Any product that is found to be defective within the one year period will be replaced at the discretion of SSI. **THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, PERFORMANCE, OR OTHERWISE.** SSI is not an expert in the customer's technical field and therefore does not warrant the suitability of its products for the applications selected by the customer. SSI accepts no responsibility for misuse, misapplication or unauthorized modification of its products. **LIMITATION OF LIABILITY:** SSI's obligation under this limited warranty is strictly and exclusively limited to the repair or replacement free of charge of such articles as are found to be defective in material or workmanship on the condition that the purchaser gives prompt written notice to SSI of any claim to breach of warranty within the warranty period, and, if requested, returns the defective articles to SSI. SSI will not assume any expenses or liability for repairs made to its articles outside of its plant, without its prior written consent. SSI reserves the right to satisfy its warranty obligation in full, with respect to defective articles, by the payment to the purchaser of all sums paid by the purchaser to SSI for such articles. **IN NO EVENT SHALL SSI BE LIABLE FOR CLAIMS (BASED UPON BREACH OF EXPRESS OR IMPLIED WARRANTY, NEGLIGENCE OR OTHERWISE) FOR ANY DAMAGES, WHETHER DIRECT, IMMEDIATE, INCIDENTAL, FORESEEABLE, CONSEQUENTIAL, OR SPECIAL.**

TERMS & CONDITIONS

Please visit
www.ssi-sensors.com/contact/supplier-portal for information regarding the SSI Technologies, LLC Terms & Conditions.

NOTE

Specs are subject to change without notice.