

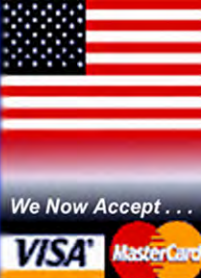


Made With Pride In The U.S.A.

Lumenite Control Technology, Inc.

2331 N 17th Ave. Franklin Park, IL 60131 Phone : 847-455-1450

Web Site : www.lumenite.com E-Mail : customerservice@lumenite.com



SERIES LSDPG SANITARY DIGITAL GAUGE/TRANSMITTER

REPLACES BOTH A GAUGE AND A 4-20mA PRESSURE TRANSMITTER



3A LISTED, CEE THIRD PARTY VERIFIED

STANDARD SPECIFICATIONS:

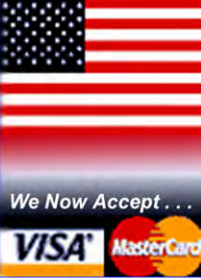
- 5 DIGIT LCD DISPLAY WITH .60 INCH CHARACTERS AND OPTIONAL BACK-LIGHTING.
- 0.25% FULL SCALE ACCURACY.
- OPTIONAL 4-20mA TRANSMITTER OUTPUT WITH BATTERY BACK-UP. REPLACES BOTH A PRESSURE GAUGE AND 4-20mA PRESSURE TRANSMITTER.
- 316 SS SANITARY FITTING AND SOCKET FOR CIP CLEANING.
- PERCENT OF RANGE BARGRAPH.
- VACUUM THROUGH 20,000 PSI RANGES.
- ALTERNATE METRIC AND ENGLISH UNITS OF MEASURE, PROGRAMMABLE THROUGH KEYPAD, INCLUDE mmHg, inH₂O, mBar, Kpa, kg/cm², AND BAR.
- PASSWORD PROTECTED ZERO, MIDPOINT, AND SPAN.
- LOWER, (6 O'CLOCK STANDARD), 3, 9, AND 12 O'CLOCK CONNECTION OF SANITARY FITTING.
- OPERATING TEMPERATURE 14°F TO 140°F (-10°C TO 60°C)



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STANDARD SPECIFICATIONS

psi	Comp. (psi)	mmHg (press.)	In. Hg (press.)	In. H ₂ O	mm H ₂ O	mBar	Ft. H ₂ O	mPa	kPa	Bar/ksc
	15# & vac.	1500	60	800	60	250	30	6	200	2
	30# & vac.	2000	100	1000	100	300	60	10	300	4
	60# & vac.	3000	160		160	400	160	50	400	6
30			200		200	500	200		600	10
60			300		300	600	300		800	16
100			400		400	1000	400		1000	25
160			600		600	1500	600		1600	40
200			800		800	2000	1000		2500	60
300			1000		1000	2500			4000	100
600			1600			4000			6000	160
800			2000			5000			8000	250
1000			3000							400
1500			6000							500
2000										800
3000										1000
5000										
8000										
10,000										
15,000										
20,000										

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 in and max values, arrow key allows for scrolling thru menu items.
Menu:	Allows for changes to default settings (see menu mode).
Backlite (up) Arrow Key: (Backlite optional)	Manually turns backlite on and off (auto off options in menu), arrow key allows for five menu options. (Up) arrow key allows for scrolling thru menu options.
Enter:	Selects items in the menu.

MENU MODE

Menu Key:	Allows scrolling through menu to select available options.
Engineering Units:	10 units of measurement are available; psi, in. H ₂ O (with three temp. options: 20°C, 60°F, 4°C*), Ft. H ₂ O, mPa, mBar, kPa, Kg/cm ² , Bar, inHg and mmHg.
Configuration Mode (Config):	Allows for changes to default settings of gauge.
Bar Graph (Graph):	Allows for adjustment of bargraph and 4-20 (optional feature).
Auto Off (Off):	Allows for changes to auto off of gauge, five options: Never, 2 min., 5 min., 15 min., 30 min.
Update Rate (Update):	Four options: 100 ms, 200 ms, 500 ms, 1 sec.
Dampening (Damp):	Six options: None, average, 2, 4, 6, 8 times per 100ms.
Backlite:	Five options: Never, 10 sec., 30 sec., 1 min., 5 min.
Field Recalibration:	Zero and Span (password protected).
Calibration:	Allows for recalibration of zero, midscale and span (password protected).
Agency Approvals:	CE, FM (Intrinsically Safe Class1, Div 1), CSA and CENELEC (all pending).

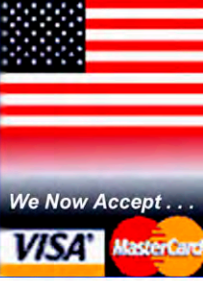


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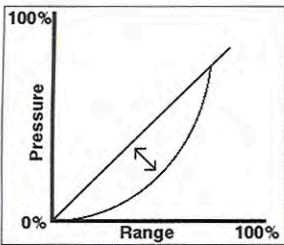
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What you should know about digital gauge accuracy....Terminal Point Accuracy Versus Best Fit Straight Line Accuracy.

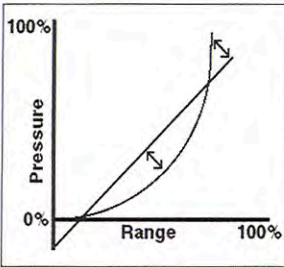
Lumenite Type LSDPG Series Digital Gauge with Terminal Point Accuracy



BENEFIT

- All points between zero and full-scale will be within stated accuracy
- Allows zeroing of gauge at start-up to eliminate any sensor offset

Competitive Digital Gauges with Best Fit



- Linearity error minimized by "best" fitting a straight line to a non-linear curve
- BFSL gauges may have a zero offset at calibration that must be maintained to ensure accuracy throughout range

PROBLEM WITH BFSL

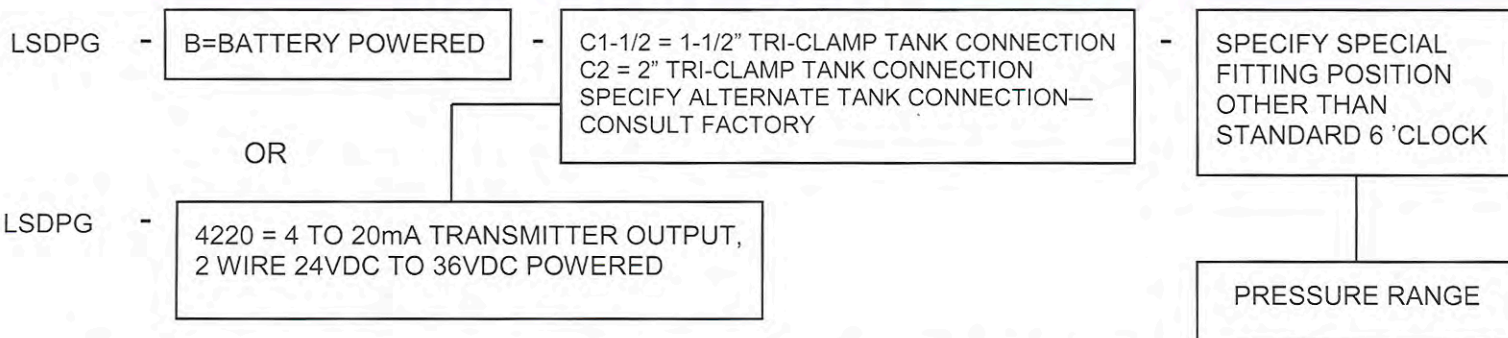
- Re-zeroing gauge may invalidate published accuracy specification
- Zero offset at start-up may be the result of either:
 - BFSL Calibration
 - Zero Drift

The Bottom Line....

The Accuracy of the LSDPG Digital Industrial Gauge Includes:

- Linearity
- Hysteresis
- Repeatability
- Terminal Point Accuracy

SPECIFICATION ORDERING KEY FOR LSDPG



EXAMPLE: MODEL LSDPG-4220-C2-100PSI EQUALS LUMENITE SANITARY DIGITAL PRESSURE GAUGE, WITH 4-20mA 2 WIRE TRANSMITTER OUTPUT, 2" TRI-CLAMP CONNECTION, WITH STANDARD 6 O'CLOCK FITTING POSITION AND 0-100PSI RANGE.