

Low Pressure Isolated Pressure Sensors

The Level Master series

incorporates stainless steel and plastic isolation suitable for drinking water and other fluid or gas measurements. The Level Master uses a patent pending low cost stainless steel sensor in a plastic fitting. The modular design is adaptable to an infinite number of plastic port variations. The small size vs performance enables the miniaturization of high accuracy pressure and vacuum systems. The standard output is .5V to 4.5V with a 5V supply.



Features

- ◆ Low to mid pressure ranges (1psi thru 150psi)
- ◆ High Level Output (.5 to 4.5V with 5V supply)
- ◆ Stainless steel diaphragm with plastic housing
- ◆ Ideal for shallow tank level measurement
- ◆ Targeted for high volume low cost custom applications including custom panel meters & connections

Applications

- ◆ Irrigation
- ◆ RV and marine holding tank level
- ◆ Water storage & recycling systems
- ◆ Small tank fluid level
- ◆ Chillers & evaporative coolers

Specifications

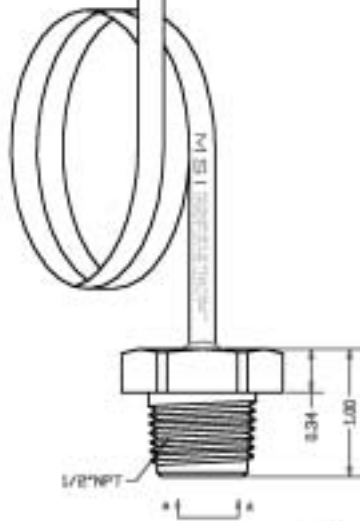
PARAMETERS	MIN	TYP	MAX	UNITS	NOTES
Full Pressure Output		4.5		V	1,2
Zero Pressure Output		.5		V	1.2
Accuracy Combined linearity, hysteresis & repeatability		0.25		±% Span	1, 3
Total Error Band Includes all calibration errors above and temperature effects over the compensated range		3	10% 1psi 7% 5psi 5% > 5psi	±% Span	4, 5
Pressure Overload			3X or 20psi.	Rated	7
Supply Voltage	4.75	5	5.25	V	2
Insulation Resistance (@ 50V DC)	50			M _Ω	8
Compensated Temperature Range	0° to 40°				5
Operating Temperature Range	-30° to 85°				1
Pressure Port Material	PVC				
Wetted Material	Plastic, 316 SS and "O" ring seal				

1) Ref. At 25C
 2) Ratiometric to supply voltage
 3) Best Fit Straight Line
 4) Maximum error over the entire compensated temperature at any pressure within range.

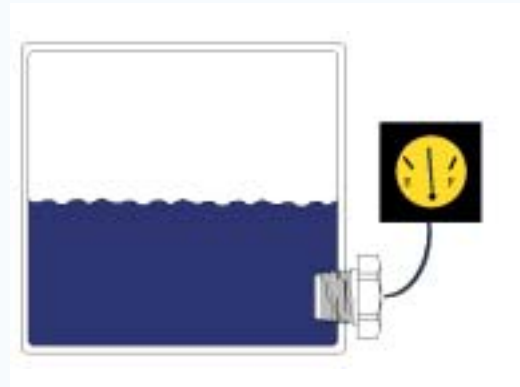
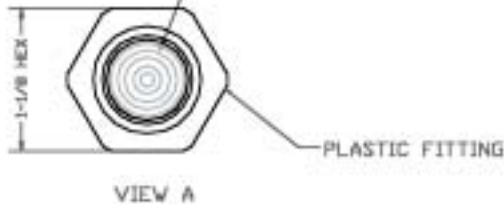
5) Custom calibration available for high volume applications
 7) Whatever is higher (20psi for 1psi & 5psi ranges)
 8) Minimum from any wire to metal diaphragm

Model	Output	Connection	Specials	port type	Pressure range	Pressure unit
LM	X	X	- XXXXX	X	- XXXX	X
Output	Connection	Specials	Port Type	Pressure range	Pressure units	
3=.5 to 4.5V ratio (1)	1= cable 1 foot in length	Specials are designated by a 5 digit number.	F= _" NPT	001P=0 to 1psi 005P=0 to 5psi 015P=0 to 15psi 030P=0 to 30psi 050P=0 to 50psi 100P=0 to 100psi 150P=0 to 150psi	G = gauge	
X=Special output	X=Special connection		X= special port			

+Vin(RED)
-Vin(BLACK) +Vout (YELLOW)



316L STAINLESS STEEL DIAPHRAGM AND MODULE SEALED WITH O-RING



Pressure Ranges

Range	psig
0 to 1 psi	●
0 to 5 psi	●
0 to 15 psi	●
0 to 30 psi	●
0 to 50 psi	●
0 to 100 psi	●
0 to 150 psi	●

Schaevitz® Sensors

Division of Measurement Specialties

1000 Lucas Way
Hampton, VA 22666
1-800-745-8008

Phone: 757-766-1500

Fax: 757-766-4297