



Submersible

Stainless Steel Media Isolated Pressure Sensor

AV901

OVERVIEW

AV901 series submersible level sensors offer the best price performance ratio in the industry by utilizing the latest in MEMs piezo-resistive technology using corrosion resistance 316L stainless steel (Hastelloy C276 optional). From 0-1 to 0-100PSI pressure / level measurement, this submersible pressure transducer is an excellent solution to level monitoring for indoor and outdoor applications.

BENEFITS

- * No Internal O-ring
- * Wide Operating Temperature Range
- * Ranges up to 100 PSI
- * Low Static and Thermal Errors
- * Unparalleled Price and Performance
- * Compatible with Wide Range of Liquids
- * EMI/RFI Protection
- * Rugged Design to Survive in Harsh Environments
- * High Strength Stainless Steel Construction

APPLICATIONS

- * Earthened & Concrete Dams
- * Liquid Level Tanks
- * Gasoline & Diesel Fuel Tanks
- * Waste Water Canals
- * Ground Water Level Dept Measurement



Performance@25°C (77°F)

Accuracy*	<±0.25% BFSL, typ.
Stability (1 year)	<±0.25% of FS, typ.
Pressure Range	100PSI Maximun
Over range Protection	2X Rated Pressure
Burst Pressure	5X or 1,250psi (whichever is less)
Pressure Cycle	>50 Million

Output	Excitation	Zero Offset	Span Tolerance
Voltage	10-28VDC	<±0.5% of FS typ.	<±0.5% of FS typ.
4-20mA			
0.5-4.5V Ratiometric	5VDC typ.	<±2mV	<±2mV
10mV/V**			

Reverse Polarity Protection Yes

- * Accuracy includes non-linearity, hysteresis & non-repeatability
- ** 10VDC, Maximun

Physical Description

Wetted Material	316L / Hastelloy C276 / Titanium
Weight	200g
Electrical Connection	Cable

Environmental Data

Temperature

Operating	-40 to 85°C (-40 to 185°F)
Storage	-40 to 100°C (-40 to 212°F)

Thermal Limits

Compensated Range	0 to 55°C (30 to 130°F)
TC Zero	<±1% FS
TC Span	<±1% FS

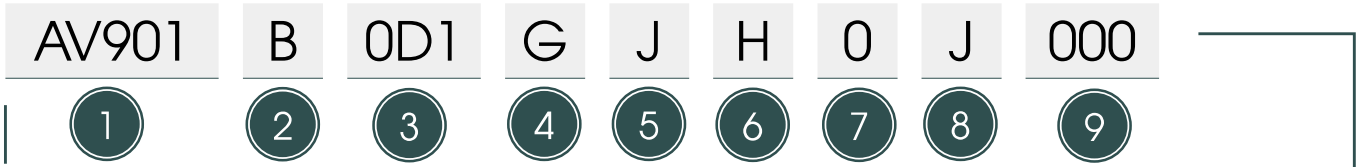
Other

Shock	100g, 11msec, 1/2 sine
Vibration	10G peak, 20 to 2000hz
EMI/RFI Protection	Yes
Rating	IP68



Ordering Method

For Example:-



1	Series	Code	Description	
		901	Diameter 22mm	
2	Pressure Unit	Code	Description	
		A	kPa	
		B	bar	
		H	Inches H2O	
3	Pressure Range	000	Standard Pressure Range (3-Code)	
		Example	0d1	0.1
			2d5	2.5
			018	18
*	d	Decimal Place		
4	Pressure Type	Code	Description	
		G	Gauge	
5	Header Thread	J	1/2 MNPT Flush	
		K	G1/2 Flush	
		N	Nose Cone	
		G	Metal Cage	
		X	Special Unit (See Option Code)	
6	Wetted Material	L	316L-SS	
		H	Hastelloy C276	
		T	Titanium	
7	Output	0	0-5V	
		1	1-5V	
		2	0-10V	
		3	0.5-4.5V	
		4	4-20mA	
		8	0.5-4.5V Ratiometric	
9	10mV/V			
8	Electrical Connection	J	1/2 MNPT Conduit w/1m cable	
		K	1/2 MNPT Conduit w/2m cable	
		L	1/2 MNPT Conduit w/3m cable	
		W	20ft. cable	
		X	Other Cable Length / Special Connection	
9	Options Code	Code	Description	
		000	No Special Options (3-Digit Code)	

DIMENSIONAL DATA

