



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% BFSI, typ.
Stability (1 year)	<±0.25% of FS, typ.
Pressure Range	100PSI Maximum
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	10-30VDC	<±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, Maximum

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:-

AV901

B

0D1

G

J

H

0

J

000

1

2

3

4

5

6

7

8

9

1

Series	Code	Description
	901	Diameter 22mm

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Wetted Material	L	316L-SS
	H	Hastelloy C276
	T	Titanium

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Pressure Unit	Code	Description
	A	kPa
	B	bar
	H	Inches H2O
	P	PSI

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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

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Pressure Range	000	Standard Pressure Range (3-Code)	
Example	0d1	0.1	
	2d5	2.5	
	018	18	
	*	d	Decimal Place

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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

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Pressure Type	Code	Description
	G	Gauge

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Header Thread	J	1/2 MNPT Flush
	K	G1/2 Flush
	N	Nose Cone
	G	Metal Cage
	X	Special Unit (See Option Code)

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Options Code	Code	Description
	000	No Special Options (3-Digit Code)

DIMENSIONAL DATA

