



## OEM Industrial

MEMs low Pressure Sensor

# AV200

### OVERVIEW

The AV200 pressure sensor is intended for industrial OEM all Media isolation pressure sensor applications that require the low pressure measurement of liquids and gases. The AV200 offers rugged construction, the latest in MEMs silicon sensor technology, advanced electronics and competitive pricing.

### BENEFITS

- \* Low Static and Thermal Errors
- \* Wide Operating Temperature Range
- \* Media Isolated
- \* Ranges from 0-2 PSI to 0-2000 PSI
- \* CE Approved
- \* Hastelloy C276 as option
- \* I2C available (Digital Output)

### APPLICATIONS

- \* Pressure Instrumentation
- \* Water Level
- \* Boiler Controls
- \* Pneumatics
- \* HVAC/R Systems
- \* Excellent low pressure application

isOMEM™

### Performance@25°C (77°F)

Accuracy*	<±0.2% typ.
Stability (1 year)	<±0.2% typ.
Over range Protection	2X FS, 4000psi whichever is less
Pressure Cycles	10 million, min

Output	Excitation	Zero Offset	Span Tolerance
10mV/V**	10VDC, Maximum	<±2mV	<±2mV

Input Impedance	5000Ω, typ.
Output Resistance	5000Ω, typ.

\* Accuracy includes non-linearity, hysteresis & non-repeatability

\*\* 10VDC, Maximum

### Physical Description

Wetted Material	316L, Hastelloy (optional)
Electrical Connection	Flex strip, Pins, Hook up wires

### Environmental Data

#### Temperature

Operating	-40 to 120°C
Storage	-40 to 125°C

#### Thermal Limits

Compensated Range	0 to 70°C
TC Zero	<±1.5% of FS
TC Span	<±1.5% of FS

#### Other

Shock	100G, 11ms
Vibration	10G, 20 to 2000 Hz



## Ordering Method

For Example:-

AV200

A

000

A

4

L

9

F

000

1

2

3

4

5

6

7

8

9

1

Series	Code	Description
	AV200	

7

Output	9	10mV/V**
	D	I2C

2

Pressure Unit	A	kPa
	B	bar
	C	kg/cm2
	P	PSI

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Electrical Connection	F	Flex Strip
	H	Hookup Wire
	M	Molex / 4-Pin

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Pressure Range	000	Standard Pressure Range (3-Code)	
Example		0d1	0.1
		2d5	2.5
		018	18
		725	725
	d	Decimal Place	

9

Options Code	000	No Special Options
	006	Fomblin Oil Filled
	008	Titanium Hex, Weld Ring, Thread

\*\* 10VDC, Maximum

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Pressure Type	A	Absolute
	G	Gauge

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Header Thread	4	1/4 MNPT
	8	1/8 MNPT
	7	7/16-20 UNF Male
	K	G1/2 Flush
	Q	7/16-20 UNF Female
	U	Weldable
	Z	G1/4 Male

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

### DIMENSIONAL DATA

