



# AV300

## OEM industrial

MEMS Pressure Sensor & Transmitter

### OVERVIEW

The AV300 is Media Isolated sensor is intended for industrial general purpose. OEM applications that require measurement of liquids and gases up to 1000PSI. The AV300 offers rugged construction, latest in MEMs technology, advanced electronics and competitive pricing, fast delivery.

### BENEFITS

- \* Low Static and Thermal Errors
- \* Wide Operating Temperature Range
- \* Compact Size
- \* Pressure Ranges from 0-1 PSI to 0-1000 PSI (70 Bar)
- \* CE Approved

### APPLICATIONS

- \* Pressure Instrumentation
- \* Water Level
- \* Boiler Controls
- \* Pneumatics
- \* HVAC/R Systems

### Performance@25°C (77°F)

Accuracy*	<±0.25% typ.
Stability (1 year)	<±0.2% typ.
Over range Protection	2X rated (4X optional)
Pressure Type	Gauge, Sealed, Absolute
Response Time	≤1ms ( up to 90% FS)

Output	Excitation	Zero Offset	Span Tolerance
0-5V	10-30V	<±0.75%	<±0.75%
4-20mA			
0.5-4.5V Ratiometric	5VDC typ.	<±2mV	<±2mV
10mV/V**			

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

### Physical Description

Wetted Material	316L
Electrical Connection	Packard, Din 43650C, M12, Cable etc.
Body Material	Stainless Steel
Weight	95g
Reverse Polarity Protection	Yes

### Environmental Data

#### Temperature

Media	-40 to 125°C (-40 to 257°F)
Operating	-40 to 105°C (-40 to 221°F)
Storage	-40 to 125°C (-40 to 257°F)
IP rating	IP65

#### Thermal Limits

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

#### Other

Shock	100 (11ms)
Vibration	20g (20 to 5000 Hz)





## Ordering Method

For Example:-



① Series	Code	Description
		AV300

⑦

⑦ Output	Code	Description
	0	0-5V
	4	4-20mA
	8	0.5-4.5V Ratiometric
9	10mV/V **	

② Pressure Unit	Code	Description
	A	kPa
	B	bar
	C	kg/cm2
P	PSI	

③ Pressure Range	000 Standard Pressure Range (3-Code)		
	Example	0d1	0.1
		2d5	2.5
		018	18
		725	725
		01K	1000
	*	K	1.00E+03
d		Decimal Place	

Maximum Pressure Range up to 1000 PSI

⑧

⑧ Electrical Connection	Code	Description
	C	Din43650C Connector
	D	Deutsch DT04-3P
	E	Deutsch DT04-4P
	P	Packard Metripack 150
	Q	1m Cable
	R	2m Cable
	Y	M12x1 - 4P
	Z	M12x1 - 5P
X	Other Cable Length / Special Connection (See Option Code)	

⑨

⑨ Options Code	Code	Description
	000	No Special Options (3-Digit Code)

④ Pressure Type	Code	Description
	A	Absolute
	G	Gauge
	S	Sealed Gauge
X	Special Offset (See Option Code)	

⑤ Header Thread	Code	Description
	4	1/4 MNPT
	8	1/8 MNPT
	5	M20x1.5 Male
	7	7/16-20 UNF Male
	E	1/4 NPT Female
	F	1/8 NPT Female
	Q	7/16-20 UNF Female
	Y	G1/2 Male
Z	G1/4 Male	
X	Special Unit (See Option Code)	

⑥ Wetted Material	Code	Description
	L	316L-SS

\*\* 10VDC, Maximum

### DIMENSIONAL DATA

