



# Stainless Steel Media Isolated

Industrial Pressure Sensor and Transmitter

# AV400

### **OVERVIEW**

AV400 Pressure Sensor is design for industrial and offroad applications. It employs p-n junction free MEMS piezo resistive technology that is inorganically bonded for media isolation. Because of one-piece stainless steel structure, AV400 provides reliable operation in harsh environment. It is well suited for OEM machinery, process control, automation, plastic and alloy injection molding machines, hydraulic, etc.

### BENEFITS

- \* No welds, no internal O-rings, no fluid fill
- \* Rugged Design organics exposed to the pressure media
- \* Features digital compensation
- \* Temperature correction for high accuracy and stability.

### **APPLICATIONS**

- \* OEM machinery,
- \* Process control
- \* Industrial Automation
- \* Plastic molding machines
- \* Alloy injection molding machines
- \* Hydraulic, etc.



### Performance@25°C (77°F)

<±0.25% BFSL, typ. Accuracy\* Stability (1 year)  $<\pm0.25\%$  FS, typ.

Over range Protection 2X rated Pressure (4X optional) Burst Pressure 5X or 20,000psi(whichever is less)

Pressure Cycles >100 Million

Output	Excitation	Zero Offset	Span Tolerance
0-5V			
1-5V	10-28VDC	<±0.75%	<±0.75%
4-20mA			
10mV/V**	10V excitation as max.	<±2% of FS	<±2% of FS

#### Reverse Polarity Protection Yes

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

\*\* 10VDC, Maximun

### Physical Description

17-4PH, 316L, Hastelloy C276 Wetted Material

(Optional)

**Electrical Connection** Packard, Din 43650C, M12,

Cable.

### **Environmental Data**

#### **Temperature**

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

#### **Thermal Limits**

Compensated Range 0 to 60°C (30 to 140°F)

TC Zero  $<\pm1\%$  of FS TC Span  $<\pm1\%$  of FS

#### Other

Shock 100G, 11 msec, 1/2 sine 10G peak, 20 to 2000Hz. Vibration

**EMI/RFI** Protection Yes

Rating IP-66 (Standard)

IP-67 (Optional)



## Ordering Method

For Example:-



AV400

Α

000

Α

L

0

C

000





3

4

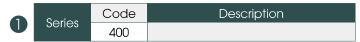
(5)

6

7

8

9



	Pressure Unit	Code	Description
		Α	kPa
\		В	bar
		С	kg/cm2
		Н	Inches H2O
		Р	PSI

	000	Standard Pressure	Range (3-Code)
		0d1	0.1
	Example *	2d5	2.5
		018	18
Pressure Range		725	725
		01K	1000
		5K5	5500
		10K	10000
		K	1.00E+03
		d	Decimal Place

6	Α	Absolute
	V	Vacuum
Pressure Type	G	Gauge
1,60	S	Sealed Gauge
	Χ	Special Offset (See Opition Code)

		2	1/2 MINPI
		4	1/4 MNPT
		8	1/8 MNPT
	Header	5	M20x1.5 Male
	Thread	7	7/16-20 UNF Male
		9	9/16-18 UNF Male
		В	1/4 MBSPP
		Z	G1/4 Male

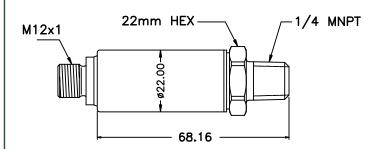
	Wetted material	Р	17-4PH
		L	316L-SS
)		С	718 Inconel
	maronar	Н	Hastelloy C276
		Т	Titanium

		0	0-5V
		1	1-5V
		2	0-10V
	Output	3	0.5-4.5V
		4	4-20mA
		8	0.5-4.5V Ratiometric
		9	10mV/V

	Electrical Connection	Α	Din43650A Connector
		С	Din43650C Connector
		Е	Deutsch DT04-4P
8		J	1/2 MNPT Conduit w/ 1m cable
		Р	Packard Metripack 150
		Q	1m Cable
		R	2m Cable
		Υ	M12x1 - 4P

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

## DIMENSIONAL DATA



6