



AV400

Stainless Steel Media Isolated

Industrial Pressure Sensor and Transmitter

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)

Accuracy*	<±0.25% BFSL, typ.
Stability (1 year)	<±0.25% 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	10-30VDC	<±0.75%	<±0.75%
1-5V	10-30VDC		
4-20mA	12-30VDC	<±2% of FS	<±2% of FS
10mV/V**	10V excitation as max.		

Reverse Polarity Protection Yes

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

Physical Description

Wetted Material	17-4PH, 316L, Hastelloy C276 (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)
Storage	-40 to 125°C (-40 to 257°F)

Thermal Limits

Compensated Range	0 to 60°C (30 to 140°F)
TC Zero	<±1% of FS
TC Span	<±1% of FS

Other

Shock	100G, 11 msec, 1/2 sine
Vibration	10G peak, 20 to 2000Hz.
EMI/RFI Protection	Yes
Rating	IP-66 (Standard) IP-67 (Optional)



Ordering Method



For Example:-



1 Series	Code	Description
	400	

2 Pressure Unit	Code	Description
	A	kPa
	B	bar
	C	kg/cm2
	H	Inches H2O
	P	PSI

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

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

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

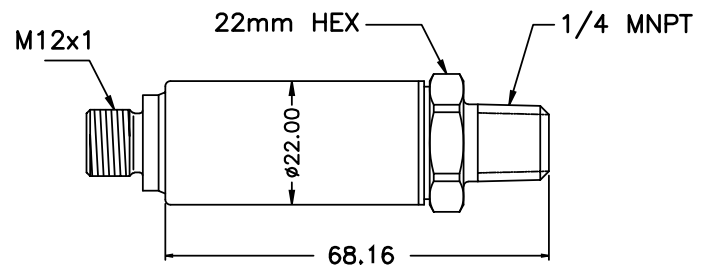
6 Wetted material	P	17-4PH
	L	316L-SS
	C	718 Inconel
	H	Hastelloy C276
	T	Titanium

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	A	Din43650A Connector
	C	Din43650C Connector
	E	Deutsch DT04-4P
	J	1/2 MNPT Conduit w/ 1m cable
	P	Packard Metripack 150
	Q	1m Cable
	R	2m Cable
	Y	M12x1 - 4P

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

DIMENSIONAL DATA



Customers of Avery sensor products should make their own evaluation on the suitability of the product for their end application. Specifications are subject to change without notice