



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	10-28VDC	<±0.75%	<±0.75%
1-5V			
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, 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	Example	Standard Pressure Range (3-Code)	
		Code	Description
		000	Standard Pressure Range (3-Code)
		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	Code	Description
	A	Absolute
	V	Vacuum
	G	Gauge
	S	Sealed Gauge
	X	Special Offset (See Option Code)

⑤

Header Thread	Code	Description
	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	Code	Description
	P	17-4PH
	L	316L-SS
	C	718 Inconel
	H	Hastelloy C276
	T	Titanium

⑦

Output	Code	Description
	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	Code	Description
	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

