



High Accuracy

Stainless Steel Media Isolated Pressure Sensor

AV40HA

OVERVIEW

The AV40HA is a digitally compensated pressure transducer / pressure transmitter that offers high performance over temperature. It has excellent non-linearity and non-repeatability performance. When it is combined with the ASIC, the AV40HA steps into its own league of high performance pressure sensing at an affordable price. AV40HA offers a choice of wetted materials to handle a wide range of corrosive media.

BENEFITS

- * ASIC Compensation
- * Temperature Performance
- * Real Time Thermal Compensation
- * Real Time Linearity Correction
- * Downturn Capability

APPLICATIONS

- * Aerospace
- * Analytical Instruments
- * Hydraulics
- * Labs / Metrology
- * Medical
- * Military
- * Test Stands
- * Hydrogen
(Consult factory for media compatibility)



Performance@25°C (77°F)

Accuracy*	<±0.1% BFSL*, typ.
Stability (1 year)	<±0.1% FS, typ.
Pressure Range	0-5 to 20,000PSI
Proof Pressure	2X Rated Pressure, standard**
Burst Pressure	5X or, 50,000PSI, whichever is less
Pressure Cycle	100 million

Output	Excitation	Zero Offset	Span Tolerance
4-20mA	10-28VDC	<±0.5% of FS	<±0.5% of FS
0-5V			
0-10V	15-30VDC		

* Accuracy includes non-linearity, hysteresis & non-repeatability
 ** For higher proof pressures, contact factory

Physical Description

Wetted Material	316L, 17-4PH, 718 Inconel
Weight	60g
Electrical Connection	Bendix, Din43650, Cable
Reverse Polarity Protection	Yes

Environmental Data

Temperature

Operating	-40 to 85°C (-40 to 185°F)
Storage	-50 to 125°C (-58 to 250°F)

Thermal Limits

Compensated Range	0 to 70°C
TC Zero	<±0.5% FS
TC Span	<±0.5% FS

Other

Shock	100g, 11msec, 1/2 Sine
Vibration	10G peak, 20 to 2000hz
EMI/RFI Protection	Yes
Rating	IP66



Ordering Method

For Example:-

AV40HA P 000 G 3 L 0 T 000

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Series	Code	Description
	AV40HA	

② Pressure Unit	Code	Description
	B	bar
	C	kg/cm ²
	P	PSI

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

④ Pressure Type	Code	Description
	A	Absolute
	G	Gauge
	S	Sealed Gauge
V	Vacuum	

⑤ Header Thread	Code	Description
	3	3/8-24 UNF Male
	4	1/4 MNPT
	* 7	7/16-20 UNF Male
	* 8	1/8 MNPT
	9	9/16-18 UNF Male
	A	F250C
	B	1/4MBSPP
Q	7/16-20 UNF Female	
Z	G1/4 Male	

⑥ Wetted Material	Code	Description
	I	718 Inconel
	** L	316L-SS
P	17-4PH	

⑦ Output	Code	Description
	0	0-5V
	1	1-5V
	2	0-10V
	4	4-20mA
	8	0.5-4.5V Ratiometric 5VDC
S	1-6V	
X	Special Output (See Option code)	

⑧ Electrical Connection	Code	Description
	A	Din43650A Connector (12mm)
	B	Bendix Connector (6-Pin)
	C	Din43650C Connector (8.0mm)
	S	3m Cable
	T	2 ft. Cable
	U	4 ft. Cable
V	6 ft. Cable	
Y	M12x1-4P (4-Pin)	

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

* 7/16-20 UNF Male and 1/8MNPT not available 50PSI or below
 F250C is the only option for 10,000 or above, not available in 316L,
 ** 316L available up to 10,000PSI

DIMENSIONAL DATA

