

AV40HA

OVERVIEW

The AV40HA is a digitally compensated pressure transducer / pressure transmitter that offers high performance over temperature. It has excellent non-linearity and nonrepeatability 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
- (Consult factory for media compatibility)

* Hydrogen I-GLPZ"

Performance@25°C (77°F)

Stainless Steel Media Isolated Pressure Sensor

Accuracv* Stability (1 year) Pressure Range Proof Pressure Burst Pressure Pressure Cycle

High Accuracy

<±0.1% BFSL*, typ. <±0.1% FS, typ. 0-5 to 20,000PSI 2X Rated Pressure, standard** 5X or, 50,000PSI, whichever is less 100 million

Output	Excitation	Zero Offset	Span Tolerance	
4-20mA	10-28VDC			
0-5V	10-20VDC	$<\pm0.5\%$ of FS	<±0.5% of FS	
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 Storage

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

Thermal Limits

Compensated Range TC Zero TC Span

0 to 70°C <±0.5% FS <±0.5% FS

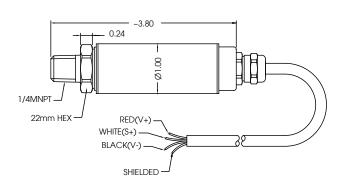
100g, 11msec, 1/2 Sine 10G peak, 20 to 2000hz Yes IP66

Other Shock Vibration **EMI/RFI** Protection

Rating

	Ordering Method For Example:-						AVER INSTRUMEN			
	AV4(OHA	ΡC	000	G	3	L	0	T 000	
			2	3	4	5	6	7	8 9	
•	Series	Code	D	escriptic	n	6	Wetted	Ι	718 Inconel	
		AV40HA					Material -	** L	316L-SS	
								Р	17-4PH	
2	Pressure	В	bar							
	Unit	С	kg/cm2					0	0-5V	
		Р	PSI					1	1-5V 0-10V	
						7	Output	4	4-20mA	
		000	Standard Pressure		ilige (S-Code)		Culpul	8	0.5-4.5V Ratiometric 5VDC	
		Example	0d1	0.1				S	1-6V	
3	Pressure Range		2d5	2.5 18				X	Special Output (See Option code)	
	Kange		018 725	725	5					
			725 d		, cimal plac			А	Din43650A Connector (12mm)	
			u	00				B	Bendix Connector (6-Pin)	
	Pressure	•						C	Din43650C Connector (8.0mm)	
		A G	Absolute			8	2 Electrical	S	3m Cable	
4	Type	S	Gauge	-			Connection	Т	2 ft. Cable	
	, 1	V	Sealed Gauge Vacuum					U	4 ft. Cable	
			Vucuum					V	6 ft. Cable	
		2	3/8-24 UNF Male					Y	M12x1-4P (4-Pin)	
		3	3/8-24 UNF N	lale						
		* 7					9 Options Code			
		* 8	1/8 MNPT			_ 9		000	No Special Options (3-Digit Code)	
5	Header	9	9/16-18 UNF Male				* 7/16-20 UNF Male and 1/8MNPT not available 50PSI or below			
	Thread	A	F250C				F250C is the only option for 10,000 or above, not available in 316L, ** 316L available up to 10,000PSI			
		В	1/4MBSPP							
		Q	7/16-20 UNF Female							
		Z	G1/4 Male							





2