



Hydrogen ASIC Pressure Sensor

316L Stainless Steel,
Media Isolated Pressure Sensor for Hydrogen Applications

AV40H2

OVERVIEW

The AV40H2 series is now available for hydrogen pressure sensing applications. Tested to a variety of hydrogen and automotive applications, the AV40H2 series combines the best mechanical design for hydrogen pressure measurement with high performance digital compensation.

BENEFITS

- * One piece design
- * All 316L wetted high stress for optimal compatibility
- * No oil-filled cavities leave no chance of containment
- * Non-welded diaphragm eliminates leak paths and weak points
- * Digitally compensated
- * I-GLAZ Technology
- * CE EN61326

APPLICATIONS

- * PEM Fuel Cells
- * Hydrogen Filling Stations
- * Back Up Power
- * Hydrogen Storage
- * Test Stands

I-GLAZ™

Performance@25°C (77°F)

Accuracy*	<±0.5% BFSL
Stability (1 year)	<±0.25% FS, typical
Over range Protection	2X rated Pressure
Pressure Cycles	>100 Million

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

Electrical Data

Output	0.5-4.5 ratiometric
Excitation	5VDC regulated
Output Impedance	<100 Ohms, Nominal
Current Consumption	<10mA
Bandwidth	-(3dB): DC to 3kHz
Output Noise	<2mV RMS
Zero Offset	<±1% of FS
Span Tolerance	<±1% of FS
Output Load	10K Ohms, Min.
Reverse Polarity Protection	Yes

Environmental Data

Temperature

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

Thermal Limits

Compensated Range	-20 to 60°C (-4 to 140°F)
Thermal Error	<±2% of FS (±1% of FS Optional)

Other

Shock	100G, 11 msec, 1/2 sine
Vibration	20G peak, 20 to 2400Hz.
EMI/RFI Protection	Yes
Rating	IP67



Ordering Method



For Example:-

AV40H2 B 020 G 6 L 8 P 000

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

1	Series	Code	Description	6	Wetted material	L	316L-SS		
		AV40H2							
2	Pressure Unit	Code	Description	7	Output	8	0.5-4.5V Ratiometric		
		B	bar						
3	Pressure Range	Example	000	Standard Pressure Range (3-Code)		8	Electrical Connection	E	Deutsch DT04-4P
			002	2			P	Packard Metripack 150	
			020	20					
			448	448	9	Options Code	Code	Description	
			500	500		000	No Special Options (3-Digit Code)		
			700	700					
			900	900					
4	Pressure Type	S	Sealed Gauge						
5	Header Thread	3	3/8-24 UNF Male						
		7	7/16-20 UNF Male						
		X	Special Unit						

DIMENSIONAL DATA

