

AMERICAN SENSING INC.

Model 2030

Aerospace Grade Differential Pressure Transducer



Model 2030 is an aerospace grade differential pressure transducer, digitally corrected to provide highaccuracy pressure measurement in an analog output. ASI proprietary sensor design provides added zero stability and high shock and vibration applications including commercial aviation, military, aerospace, UAV, satellite and defense applications.

Applications

Aviation and suborbital spacecraft Commercial and military satellites Ground and engine testing Test stand

Benefits

Fomblin oil for O2 applications

Model Specifications & Performance at 70°F

Pressure Ranges Avialable: 0 to 1 thru 0 to 500 psid

bi-directional or uni-directional

Output Excitation 0 to 5 Vdc 9 to 32 Vdc 5 Vdc Regulated 0.5 to 4.5 Vdc 4 to 20 mA 9 to 32 Vdc 0 to 10 Vdc 14 to 32 Vdc

Accuracy* <±0.1% FSO typ., ±0.05% FSO optional **Proof Pressure** 3X Range, dependant on port and material

4X range optional

Burst Pressure 5.0X Range, dependant on port and material

Line Pressure 1,000 psi max

Zero Offset ±0.5% FSO (orientation effect, <5 psid)

Span Tolerance ±0.5% FSO Response Time <2 ms typ.

* Accuracy includes linearity(BFSL), hysteresis and repeatability

Physical Description

316L SST, Hastelloy C276 Wetted material Internal Fill Fomblin Oil, Silicon Oil optional

PTIH-10-6P standard, D38999/27YA35PN, **Electrical Connection**

Cable, options available

Environmental Data

Temperature

Compensated Range 0 to 180°F standard with ±1 FSO/100°F

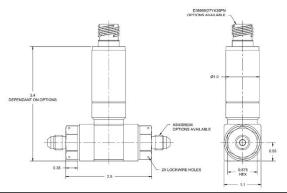
thermal effect

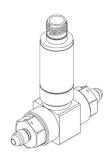
±0.25 FSO/100°F optional

-40 to 250°F Operating Range

Other

100G, 11mS, half sine Shock Vibration 20Grms, 20 to 2000 Hz





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AMERICAN SENSING INC.

Ordering Information							
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^{&#}x27;X' in any space = speical

^{*}for additional options or to create your own, contact ASI

Standard Wiring						
Pin	4-20 mA	Vdc 3 Wire	Vdc 4 wire/ mV			
1/A	+EXC (R)	+EXC (R)	+EXC (R)			
2/B	-EXC/OUT (G)	-EXC/COM(B)	+OUT (G)			
3/C	N/C	+OUT(G)	-OUT (W)			
4/D	N/C	N/C	-EXC (B)			
5/E	N/C	N/C	N/C			
6/F	N/C	N/C	N/C			

Pressure Code Chart

PSI	Pressure Code	Bar	Pressure Code		
0 to 1	00001	0 to 1	00001		
0 to 30	00050	0 to 5	00005		
0 to 100	00100	0 to 10	00010		
0 to 200	00200	0 to 15	00015		
0 to 250	00250	0 to 20	00020		
0 to 500	00500	0 to 30	00030		
* Custom options available					

^{*4} wire is non-isolated, contact factory for 4 wire Vdc isolated. Cutom pinout available. One pin may be for Manf use only

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