

Model 7000 Wet-Wet Differential Pressure Transmitter



Model 7000 is a media isolated differential pressure transducer. Complete with integrated circuits for high precision, stability, and reliability.

Model Specifications & Performance at 70°F

Pressure Ranges Available: 0 to 1 thru 0 to 500 psid
bi-directional or uni-directional

Output	Excitation
0 to 5 Vdc	10 to 30 Vdc
0.5 to 4.5 Vdc	5 Vdc
4 to 20 mA	10 to 30 Vdc
0 to 10 Vdc	12 to 30 Vdc

Accuracy*	$\leq \pm 0.4\%$ FSO typ.
Proof Pressure	2X Range, dependant on port and material 4X range optional
Burst Pressure	5.0X Range, dependant on port and material
Line Pressure	1,000 psi
Zero Offset	$\pm 0.5\%$ FSO (may have orientation effect)
Span Tolerance	$\pm 1.0\%$ FSO, $\pm 0.5\%$ FSO Optional
Response Time	< 2 ms typ.
* Accuracy includes linearity(BFSL), hysteresis and repeatability	

Physical Description

Wetted material	316L SST, Hastelloy C276
Internal Fill	Fomblin Oil
Electrical Connection	PTIH-10-6P standard, D38999/27YA35PN, Cable, options avail

Environmental Data

Temperature

Compensated Range	32 to 158°F	standard with ± 1.5 FSO/100°F thermal effect
-------------------	-------------	--

Operating Range	-40 to 221°F
-----------------	--------------

Other

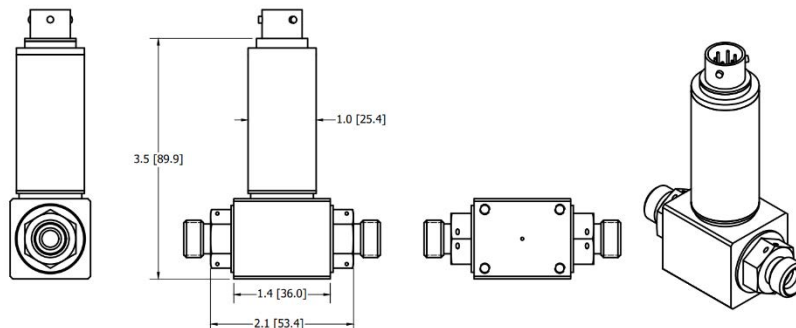
Shock	100G, 11mS, half sine
Vibration	20Grms, 20 to 2000 Hz

Applications

Water Level
Pneumatics
HVAC/R Systems
Filtration

Benefits

Wide Operating Temperature Range



AMERICAN SENSING	REV	Configuration Control	Document Name	Sheet
CAGE CODE: 8RPR4	-	1	DS7000	1 of 2
The information contained herein is proprietary to American Sensing Inc. and shall not be reproduced or disclosed in whole or in part or used in any way except when user possesses direct, written authorization from American Sensing Inc. All specifications contained herein are for reference only. All information is subject to change without notice.				

Ordering Information

7000 **D** **A** **00500** **P** **1** **C** **1** **Blank**
MODEL

Pressure Reference

D = Differential

Process Connection

A = 1/4 NPT(M)

B = 1/8 NPT(M)

F = 7/16-20 UNF-2A

I = 1/4 NPT(F)

J = 1/8 NPT(F)

Pressure Measurement

See Pressure Code Chart, always five digits

Pressure Unit

B = bar

P = psi

Outputs

1 = 0.5 to 4.5 Vdc Ratiometric

2 = 0 to 5 Vdc, 3 wire

3 = 1 to 5 Vdc, 3 wire

4 = 4 to 20 mA

5 = 0 to 10 Vdc, 3 wire

Electrical

B = Bendix 6 pin, PTIH-10-6P

C = Din43650C

E = Deutsch DT04-4P

T = 2 ft Cable

Y = M12x1 - 4P

Z = D38999/27YA35PN

Wetted Material

1 = 316L SST

4 = Hastelloy C276

Options

Blank = No options

001 = Custom Options, See Factory

'X' in any space = special

*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. Custom pinout available. One pin may be for Manf use only

AMERICAN SENSING CAGE CODE: 8RPR4	REV	Configuration Control	Document Name	Sheet	
	-	1	DS7000	2	of 2
	The information contained herein is proprietary to American Sensing Inc. and shall not be reproduced or disclosed in whole or in part or used in any way except when user possesses direct, written authorization from American Sensing Inc. All specifications contained herein are for reference only. All information is subject to change without notice.				