4000 Series - High Temperature, High Performance, Long Term Stability Pressure Transducers

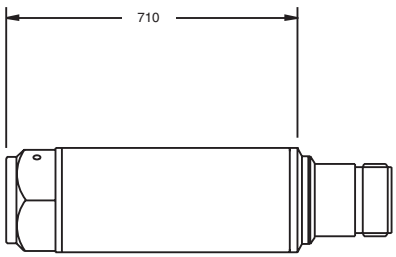
- Sealed and absolute models
- Suitable in temperatures up to 230°C (450°F)
- High stability achieved by sputtered sensing element

The high temp 4000 series provides exceptional levels of stability and other performance specifications while under excessive temperatures in harsh environments. Using a sputtered sensing element, which achieves a molecular fusion of a strain gauge material, an insulating material, and the 17-4 PH ss sensing element, generates the most stable sensor construction possible. These sputtered sensors are packaged for harsh applications requiring long term service where precise laboratory type measurements are required.

Specifications

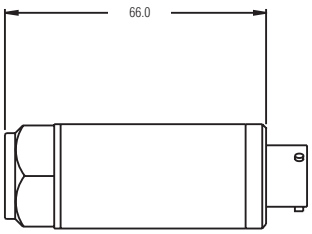
Input	
Pressure Range	0 to 1 - 0 to 690bar
Proof Pressure	2 x Full Scale (FS)
Burst Pressure	>35 x Fs <= 10bar ranges
	>15 x FS <= 100bar ranges
	>8 FS <= 690bar ranges
Fatigue Life	3 million FS cycles
Performance	
Output	25 to 38mV (certificate supplied)
Supply Voltage (Vs)	10Vdc Regulated (15Vdc max)
Long Term Drift	0.06% per year non-cumulative
Accuracy	0.1 % FS typical
Thermal Zero Error	.01 %FS/C (.005%/F) typical
Thermal Span Error	.01 %FS/C (.005%/F) typical
Compensated Temperatures	-54° to 200°C (-65° to 390°F)
Operating Temperatures	-54° to 230°C (-65° to 450°F) Conn. Code N
	-54° to 195°C (-65° to 385°F) Conn. Code C
Zero Tolerance	0mV +/- 10% FS
Bridge Resistance	590-1510 ohms
Mechanical Configuration	
Pressure Port	See ordering chart
Wetted Parts	17-4 PH ss
	[17-4 PH and 15-7 Mo Stainless Steel <= 1.6bar]
Electrical Connection	Code "N" 5 pins size 10 conn., Code "C" 6 pins size 10 conn.
Enclosure	321 ss, IP65
Vibration	35g peak sinusoidal, 5 to 2000 Hz
Shock	Withstands free fall to EIC 68-2-32 proc. 1
Weight	130grams max

Dimensions (in mm)



Code N

Maximum diameter 25.7mm



Code C

Electrical connection		Voltage units				
		IN+	**OUT+**	**OUT-**	**IN-**	**Case Earth**
C	"10-6 Bayonet"	A	B	C	D	F
N	"10-5 Screw"	1	2	3	4	5

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How to Order

Use the **bold** characters from the chart below to construct a product code

4000 L S B10 00 N O U1

Series
4000

Bridge Resistance
L is 1000 ohms

Pressure Datum
S - Sealed gauge; **A** Absolute

Insert pressure range code from table below

Pressure Port see chart

Electrical Connection (mating connector sold separately)
N - Mil C-83723 size 10-5, screw lock connector;
(Mating connector part # 499855-0001 and clamp # 499855-0011)

C - Mil C-26482 size 10-6, bayonet lock connector
(Mating connector part # 166267-0006)

4000 Model Bar Ranges	Range Code	Absolute (A) Sealed (S)
0 to 1	**A10**	**A**
0 to 1.6	**A16**	**A**
0 to 2.5	**A25**	**A**
0 to 4	**A40**	**A**
0 to 6	**A60**	**A**
0 to 10	**B10**	**S, A**
0 to 16	**B16**	**S, A**
0 to 25	**B25**	**S, A**
0 to 40	**B40**	**S, A**
0 to 60	**B60**	**S, A**
0 to 100	**C10**	**S, A**
0 to 160	**C16**	**S, A**
0 to 250	**C25**	**S, A**
0 to 400	**C40**	**S, A**
0 to 600	**C60**	**S, A**
0 to 690	**C69**	**S, A**

Diaphragm and internal port Inconel, external adaptors are available in stainless steel or Inconel

Pressure Ports

Code		
SS	**Inconel**	**Description**
00	**OK**	G 1/4 internal
AO	**AK**	G 1/4 AT external
KO	**KK**	7/16-20 UNF-3A external
MO	**MK**	M14 x 1.5 external
PO	**PK**	G 1/2 AT external
BO	**BK**	1/4-18 npt external
GO	**GK**	1/2-14 npt external
SO	**SK**	7/16-20 UNJF-3A, MS 33656E4

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