

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

SPUTTERED THIN FILM
PRESSURE TRANSDUCERS

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

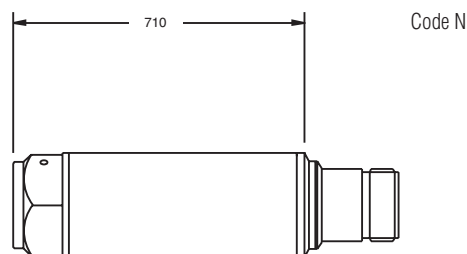
The high temp 4000 series provides exceptional levels of stability and other performance specifications while under excessive temperatures in harsh environments. Using a sputtered sensing element, which achieves a molecular fusion of a strain gauge material, an insulating material, and the 17-4 PH ss 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.



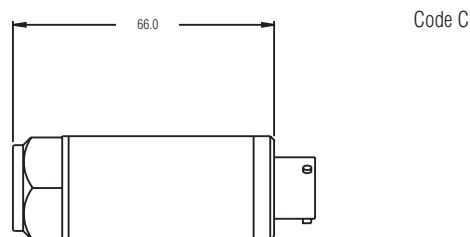
Specifications

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)



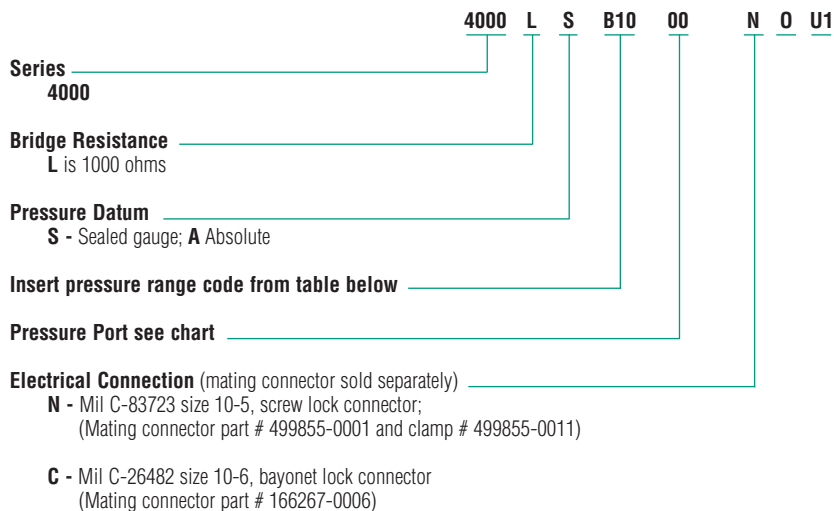
Maximum diameter 25.7mm



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

How to Order

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



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