

4700 Series – High Performance, High Stability, with 5:1 Turndown Capability Industrial Transmitters

- Gauge, Sealed and Absolute Models
- Submersible, General Purpose and Wash Down Enclosures
- IS Models

The 4700 series provides precise laboratory type measurements in a rugged industrial package complete with turndown capabilities. Exceptional levels of stability and other performance specifications are achieved by 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. Sputtered or thin film technology provides years of worry free measurements under demanding real world conditions.

Specifications

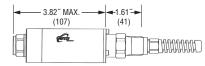
- I			
Input Pressure Range	4710, 10 to 10,000 psi; 4700, 1 bar to 690 bar		
Proof Pressure	2 x Full Scale (FS) for Stainless Steel Units		
	1.5 x FS for Inconel Units		
Burst Pressure	>35 x FS/ 10 bar ranges		
	>15 x FS \leq 100 bar ranges		
	>8 FS \leq 690 bar ranges		
Fatigue Life	3 million FS cycles		
Performance			
Output	4-20 mA (2 wire)		
Supply Voltage (Vs)	9.5 to 40 VDC (Ex IIG: 9.5 to 28 VDC)		
Supply Voltage Sensitivity	0.005% of max. span/Volt		
Long Term Drift	0.1% of max span per year non-cumulative		
Accuracy	0.1 % FS typical		
Thermal Error (typical)	0.8% of max span for performance code E		
	0.5% of max span for performance code F		
Compensated Temperatures	-13°F to +167°F (-25°C to +75°C)		
Operating Temperatures	-13°F to +185°F (-25°C to +85°C) elec. conn. code C, G & L		
	-4°F to +122°F (-20°C to +50°C) elec. conn. code M & 3		
	-22°F to +212°F (-30°C to +100°C) process/media		
Zero Tolerance	0.1% FS, typical		
Span Tolerance	0.1% FS, typical		
Zero Adjustment	±10% (100% at factory) by potentiometer		
Span Adjustment	25% to 125% of span by potentiometer		
Max. Loop Resistance	(Vs-8) x 50 ohms		
Mechanical Configuration			
Pressure Port	see ordering chart		
Wetted Parts	17-4 PH ss (optional Inconel)		
	[17-4 PH and 15-7 Mo Stainless Steel \leq 1.6 bar (30 Psi)]		
Electrical Connection	see ordering chart		
Enclosure	318 Duplex ss, 17-4 PH ss and glass filled polyester		
	IP40 for gauge datum & electrical conn. code C		
	IP65 for absolute and sealed datum & elec. conn. code C		
	IP65 for electrical connection code G IP68 for electrical connection code F		
Vibration			
	35g peak sinusoidal, 5 to 2000 Hz		
Acceleration	100g steady acceleration in any direction 0.05% FS/g for 15 psi (1 bar) range decreasing logarithmically to		
	0.0001% FS/g for 10000 psi (690 bar) range.		
Shock	Withstands free fall to IEC 68-2-32 procedure 1		
Approvals	CE, Lloyds Register, optional Intrinsically Safe EEx ia IIC T4 per		
νημιολαισ	ATEX, (Quality Assurance Certificate Supplied), ABS Certified		
Woight			
Weight	approx. 305 g (additional; cable 75 grams/m)		



Dimensions in. (mm)

Max diameter 39mm, all models

Code 3



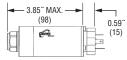
1/2 - 14 NPT conduit

Code C



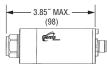
6 Pin Fixed Plug Size (10-6)

Code G



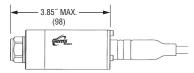
Fixed Plug to DIN 43650 Mate Supplied

Code L



5 Pin M12 x 1 Fixed Plug

Code M



Immersible IP68 to 200m WG

SPUTTERED FILM TYPES

How to Order

Use the **bold** characters from the chart below to construct a product code SELECT: 4700 B G B1

B10 00 G 3 000 E 1. 4700 bar units, 4710 psi units 2. Output Response: **B** 4-20 mA Undamped 3. Pressure Datum: **G** gauge; **A** absolute (For differential models and compound ranges consult sales) 4. Insert pressure range code from table below 5. Pressure Port see chart 6. Electrical Connection **C** Fixed plug size 10-6, mate sold separately part # 499532-0006 **G** Fixed plug to DIN 43650 mating plug supplied; **L** M12 x 1 (5 pin) M IP68 immersible cable; **3** 1/2-14 NPT Conduit 7. Approvals/Protection (For flame proof units see next page) **3** CE; **G** ATEX approved intrinsically safe EEia IIC T4, Galvanic, isolators Cable Length in meters (requires electrical connection code F) 8. 000 No Cable; 001 1 meter; 999 999 meters

9. Static/Thermal Performance

E 0.2%/1.6%; F 0.2%/1.0%. 500mbar range performance code E only

4700 Model Bar Ranges	Range Code	Gauge (G)* Absolute (A)		
0 to 500mb	N50	G, A		
0 to 1	A10 G, A			
0 to 1.6	A16 G, A			
0 to 2.5	A25 G, A			
0 to 4	A40 G, A			
0 to 6	A60	G, A		
0 to 10	B10	G, A		
0 to 16	B16 G, A			
0 to 25	B25 G, A			
0 to 40	B40 G, A			
0 to 60	B60	60 G, A		
0 to 100	C10	G, A		
0 to 160	C16	G, A		
0 to 250	C25	G, A		
0 to 400	C40	G, A		
0 to 600	C60	G, A**		
0 to 690	C69	G, A**		

4710 Model	Range	Gauge (G)*		
PSI Ranges	Code	Absolute (A)		
0 to 10	F10	G		
0 to 15	F15	G, A		
0 to 30	F30 G, A			
0 to 60	F60	G, A		
0 to 100	G10	G, A		
0 to 150	G15	G, A		
0 to 200	G20	G, A		
0 to 300	G30	G, A		
0 to 500	G50	G, A		
0 to 1000	H10	G, A		
0 to 1500	H15	G, A		
0 to 3000	H30	G, A		
0 to 5000	H50	G, A		
0 to 6000	H60	G, A		
0 to 10000	J60	G, A**		

* For compound ranges please consult factory

** Inconel pressure port required.

Pressure Ports - See Page H-24 for Dimensions

Codes		Description		
SS	Inconnel	Description		
00	OK	G 1/4 internal		
AO	AK	G 1/4 AT external		
KO	KK	7/16-20 UNF 3A external		
MO	МК	M14 x 1.5 external		
P0	PK	G 1/2 AT external		
BO	BK	1/4-18 NPT external		
GO	GK	1/2-14 NPT external		
S0	SK	7/16-20 UNJF external, MS 33656E4		
Immersible				
10	Plastic nose cone			
20	Nose cone with restrictor			
30	Nose cone w/ss Sink Weight			

Electrical Connections

Electrical Connection Code		Wiring		
		(+)	(-)	EARTH
G	"DIN"	1	2	4
C	"10-6 Bayonet"	А	В	E
F	"IP 68 Cable"	R	BL	DRAIN

Cable Legend:

R = Red BL = Blue