

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

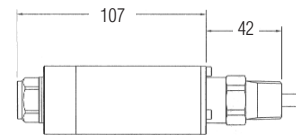
The 4700 series provides precise laboratory type measurements in a rugged industrial package complete with turndown capabilities. Exceptional levels of stability and other performance specifications are achieved by using a sputtered sensing element, which achieves a molecular fusion of a strain gauge material, an insulating material, and the 17-4 PH ss sensing element. Sputtered thin film technology provides years of worry free measurements under demanding environmental conditions.

Specifications

Input	
Pressure Range	1bar to 690bar; (10 to 10,000psi)
Proof Pressure	2 x Full Scale (FS) for Stainless Steel Units 1.5 x FS for Inconel Units
Burst Pressure	>35 x Fs <= 10bar ranges >15 x FS <= 100bar ranges >8 FS <= 690bar ranges
Fatigue Life	3 million FS cycles
Performance	
Output	4-20mA (2 wire)
Supply Voltage (Vs)	9.5 to 40Vdc
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	-25° to 75°C (-13° to 167°F)
Operating Temperatures	-25° to 85°C (-13° to 185°F) elec. conn. code C G & L -20° to 50°C (-4° to 122°F) elec. conn. code M, 3 -30° to 100°C (-22° to 212°F) process/media
Zero Tolerance	0.1%FS, typical
Span Tolerance	0.1%FS, typical
Zero Adjustment	+/- 10% (100% at factory) by potentiometer
Span Adjustment	17% to 130 % of span by potentiometer
Max. Loop Resistance	(Vs-9.5) 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 <= 1.6 bar (30 Psi)]
Electrical Connection	See ordering chart
Enclosure	321 ss, 17-4 PH ss IP40 for gauge datum & electrical conn. code C, L IP65 for absolute and sealed datum codes C, L IP65 for electrical connection code G (with connector code fitted), 3 IP68 for electrical connection code M
Vibration	35g peak sinusoidal, 5 to 2000Hz
Acceleration	100g steady acceleration in any direction 0.05% FS/g for 1bar (15psi) range decreasing logarithmically to 0.0001%FS/g for 690bar (10000psi) range.
Shock	Withstands free fall to IEC 68-2-32 procedure 1
Approvals	CE ExI 1G, E Exia II CT4 (-40°C < T amb < 75°C) Cert BASEEFA 02ATEX0040X Lloyds Register
Weight	Approx. 305g (additional; cable 75grams/m)

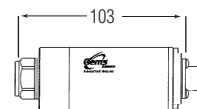


Lloyds Register



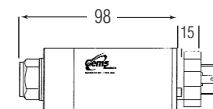
Code 3

1/2 - 14 NPT conduit



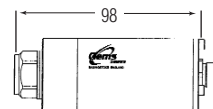
Code C

6 pin fixed plug size (10-6)



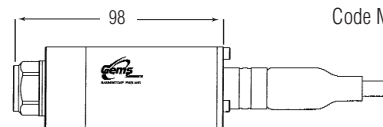
Code G

Fixed plug to DIN 43650 mate supplied



Code L

5 pin M12 x 1 fixed plug



Code M

Immersible IP68 to 200mWG

Diameter 39mm

How to Order

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

Series **4700** - series for bar ranges

Output Response **B** - 4-20mA

Pressure Datum **G** Gauge; **S** Sealed; **A** Absolute
(For compound ranges consult sales)

Insert pressure range code from table below

Pressure Port see chart

Electrical Connection **C** - Fixed plug size 10-6, 3-20mm conduit
M - Submersible cable, to 200 metres
G - Fixed plug to DIN 43650 mating plug supplied
L - M12 x 1 (5 pin)
3 - 1/2 - NPT conduit

Approvals/Protection (For flame proof units see next page)
3 - CE
G - ATEX approved ExII 1G, EEx ia IIC T4 (-40< Ta <+75°C), galvanic isolators

Cable Length in metres (requires electrical connection code M or 3)
001 - 1 metre cable
999 - 999 metre cable

Static/Thermal Performance **E** - 0.1%/0.8%; **F** - 0.1%/0.5%. 500mbar range performance code **E** only

4700 Model Bar Ranges	Range Code	Gauge (G)* Absolute (A) Sealed (S)
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, S
0 to 16	B16	G, A, S
0 to 25	B25	G, A, S
0 to 40	B40	G, A, S
0 to 60	B60	G, A, S
0 to 100	C10	G, A, S
0 to 160	C16	G, A, S
0 to 250	C25	G, A, S
0 to 400	C40	G, A, S
0 to 600	C60	G, A, S**
0 to 690	C69	G, A, S**

* For compound ranges consult sales

** Internal Inconel fitting required external fitting can be SS.

Pressure Ports

Codes		Description
SS	Inconel	
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	G1/2 AT external
BO	BK	1/4-18 NPT external
GO	GK	1/2-14 NPT external
SO	SK	7/16-20 UNJF external, MS 33656E4
Immersible		
19		Plastic nose cone
20		Nose cone with restrictor
30		Nose cone w/ss Sink Weight

Electrical connection	Wiring			
	(+)	(-)	EARTH	
G	"DIN"	1	2	4
C	"10-6 Bayonet"	A	B	E
M	IP 68 cable	R	BL	DRAIN
E	M12 x 1	1	2	4
3	Conduit	R	BL	DRAIN

R = Red BL = Blue