

6700 Series-Stable Industrial Transmitters with Turndown Capabilities

- ▶ Gauge and Absolute Pressure Models
- ▶ Submersible, General Purpose and Wash down Enclosures
- ▶ High Stability Achieved by Sputtered Sensing Element

The 6700 series features customer accessible 5:1 turndown from nominal range via a switch and potentiometer. Down ranging whether factory or user adjusted is ideal for applications requiring high overpressure. The 6700 are housed in a rugged enclosure for harsh conditions and features superb stability by incorporating Gems CVD sensing element.

Specifications

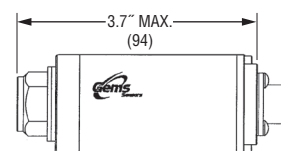
Input	
Pressure Range	0.5 to 400 bar; (7.5 to 6000 psi) Gauge and Absolute
Proof Pressure	2 x Full Scale (FS) (1.5 x FS for 400 bar, ≥ 5000 psi)
Burst Pressure	>35 x FS ≤ 100 psi (6 bar); >20 x FS ≤ 1000 psi (60 bar); >5 x FS ≤ 6000 psi (400 bar)
Fatigue Life	Designed for more than 100 million FS cycles
Performance	
Output	4-20 mA (2 wire)
Supply Voltage (Vs)	9.5 to 40 VDC (ExII 1G 9.5 to 28 Vdc)
Supply Voltage Sensitivity	0.005% of max span/Volt
Long Term Drift	0.15% of max span/year (non-cumulative)
Accuracy	0.15% FS typical
Thermal Error Typical	15°F to 120°F (-10°C to +50°C) 0.5% of max span -4°F to +176°F (-20°C to +80°C) 1% of max span
Operating Temperatures	-4°F to +185°F (-20°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	0.15 % span, typical
Span Tolerance	0.15% span, typical
Zero Adjustment	±10% (100% at factory) by potentiometer
Span Adjustment	17% to 100% of span by potentiometer/switches
Max. Loop Resistance	(Vs-9.5) x 50 ohms
Mechanical Configuration	
Pressure Port	see ordering chart
Wetted Parts	17-4 PH Stainless Steel (1 & 1.6b 17-4 PH and 15-7 MO)
Electrical Connection	see ordering chart
Enclosure	318 Duplex SS, 17-4 PH SS IP40 for gauge datum elec code C, L IP65 for absolute datum elec code C, L IP65 for elec. code G, 3 IP68 for elec. code M
Vibration	35g peak sinusoidal, 5 to 2000 Hz
Acceleration	100g steady acceleration in any direction 0.036% FS/g for 10 psi (0.75 bar) range decreasing logarithmically to 0.0007% FS/g for 6000 psi (400 bar) range.
Shock	Withstands free fall to IEC 68-2-32 procedure 1
Approvals	CE, Lloyds Register, optimal EXII 1G; E Exia II CT4 (-40°C < T amb < 75°C) Cert BASEEFA 02ATEX00040X
Weight	approx. 250 grams (additional; cable 75 g/m)



Dimensions in. (mm)

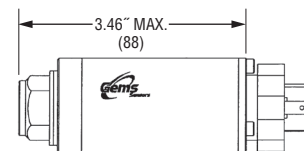
Max diameter 39mm, all models

Code C



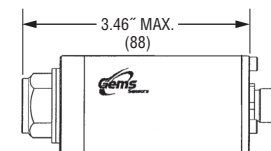
Six Pin Fixed Plug (10-6)

Code G



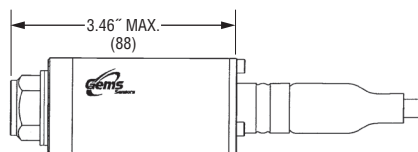
Fixed Plug to DIN 43650 Mating Connector Supplied

Code L



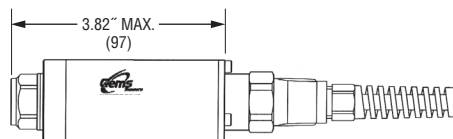
Electrical Connector M12 x 1 (5 Pin)

Code M



Immersible to 200mWG

Code 3



1/2 - 14 NPT conduit

How to Order

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

SELECT:

1. **6700** series for bar ranges, **6710** series for psi ranges
 2. Output Response: **B** 4-20 mA Undamped;
 3. Pressure Datum: **G** gauge and compound; **A** absolute
 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
M IP68 immersible cable; **G** Fixed plug to DIN 43650, mate supplied
L M12 x 1 (5 pin); **3** 1/2-14 NPT conduit
 7. Approvals/Protection **3** CE;
G ATEX approved intrinsically safe EExia IIC T4, galvanic isolation gauge and absolute
 8. Cable Length in meters (requires electrical connection code M) **000** no cable; **001** 1 meter cable; **999** 999 meters
 9. Static/Thermal performance **B** 0.15%/5%

Note: For 500mb use range code A 0.25%/3%

Electrical Connections

Electrical Connection Code	Wiring		
	(+)	(-)	EARTH
G "DIN"	1	2	4
C "10-6 Bayonet"	A	B	E
M "IP 68 Immersible Cable"	R	BL	DRAIN

Cable Legend:

R = Red BL = Blue

Pressure Range Code

6700 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
0 to 60	B60	G
0 to 100	C10	G
0 to 160	C16	G
0 to 250	C25	G
0 to 400	C40	G

6710 Model PSI Ranges	Range Code	Gauge (G) Absolute (A)
0 to 15	F15	G, A
0 to 30z	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
0 to 600	G60	G
0 to 1000	H10	G
0 to 1500	H15	G
0 to 3000	H30	G
0 to 5000	H50	G
0 to 6000	H60	G

Pressure Ports – See Page H-24 for Dimensions

Code	Description of Stainless Steel Fittings
00	G 1/4 internal
A0	G 1/4 external
K0	7/16-20 UNF-3A external
M0	M14 x 1.5 external
P0	G 1/2 manometer
B0	1/4-18 NPT external
G0	1/2-14 NPT external
S0	7/16-20 UNJF-3A, MS 33656E4

Immersible Sensors

10	Plastic Nose cone
20	Nose cone with restrictor
30	Nose cone w/ steel sink weight