

6700 Series-Stable Industrial Transmitters with Turndown Capabilities

- ▶ Gauge and absolute pressure models
- ▶ Submersible, general purpose and wash down enclosures
- ▶ High stability achieved by CVD sensing element

The 6700 series features customer accessible 5:1 turndown from nominal range via a switch and potentiometre. 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 400bar; (7.5 to 6,000psi) Gauge and Absolute
Proof Pressure	2 x Full Scale (FS) (1.5 x FS for 400bar, >= 5000psi)
Burst Pressure	>35 x FS <= 6bar (100psi) >20 x FS >=60bar (1000psi) >5 x FS <= 400bar (6000psi)
Fatigue Life	Designed for more than 100 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	0.15% of max span/year (non-cumulative)
Accuracy	0.15 % FS typical
Thermal Error Typical	-10° to 50°C (15° to 120°F) 0.5% of max span -20° to 80°C (-4° to 176°F) 1% of max span
Operating Temperatures	-20° to 85°C (-4° 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 % span, typical
Span Tolerance	0.1% 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
Electrical Connection	See ordering chart
Enclosure	321 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 (with connector fitted), 3 IP68 for elec. code M
Vibration	35g peak sinusoidal, 5 to 2000Hz
Acceleration	100g steady acceleration in any direction 0.036%FS/g for 0.75bar (10psi) range decreasing logarithmically to 0.0007%FS/g for 400bar (6000psi) range.
Shock	Withstands free fall to IEC 68-2-32 procedure 1
Approvals	CE, Lloyds Register EXII 1G; E Exia II CT4 (-40°C < T amb <75°C) Cert BASEEFA 02ATEX00040X
Weight	Approx. 250grams (additional; cable 75g/m)



Lloyds Register

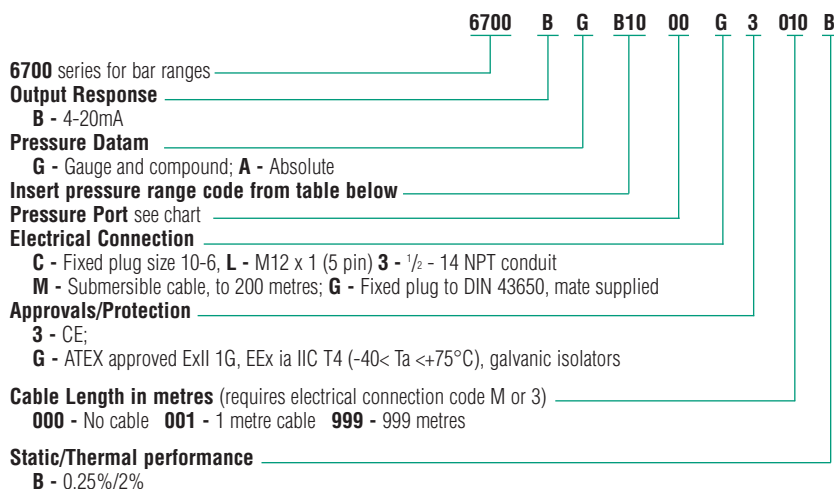
Electrical connection	Wiring			
		(+)	(-)	EARTH
G "DIN"		1	2	4
C "10-6 Bayonet"		A	B	E
M IP68 cable		R	BL	DRAIN
L M12		1	2	4
3 Leads		R	BL	G

Cable Legend:

- R = Red
- BL = Blue
- G = Green

How to Order

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

Pressure Ports for the 6700 series

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	
19	Plastic nose cone
20	Nose cone with restrictor
30	Nose cone w/ s steel sink weight

Dimensions (in mm)

Max diameter 39mm, all models

