

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

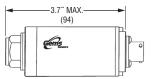
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nput Pressure Range	0.5 to 400 bar: (7.5 to 6000 pei) Cauga and Absolute		
Proof Pressure	0.5 to 400 bar; (7.5 to 6000 psi) Gauge and Absolute 2 x Full Scale (FS) (1.5 x FS for 400 bar, ≥ 5000 psi)		
Burst Pressure	>35 x FS ≤ 100 psi (6 bar);		
Durst Fressure	$>35 \times F5 \le 100 \text{ psi (6 bar)}$; >20 x FS \le 1000 \text{ psi (60 bar)};		
	>5 x FS ≤ 6000 psi (400 bar)		
Fatigue Life	Designed for more than 100 million FS cycles		
erformance			
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		
Nechanical 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 logarthmicaly 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)

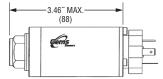
Max diameter 39mm, all models

Code C



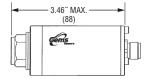
Six Pin Fixed Plug (10-6)

Code G



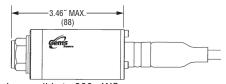
Fixed Plug to DIN 43650 Mating Connector Supplied

$Code\ L$



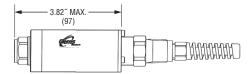
Electrical Connector M12 x 1 (5 Pin)

Code M



Immersible to 200mWG

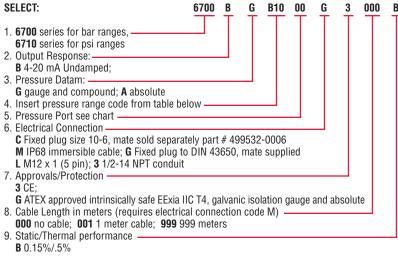
Code 3



1/2 - 14 NPT conduit

How to Order

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



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

Electrical Connections

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

Cable Legend:

R = Red BL = Blue

Pressure Range Code

Range Code	Gauge (G) Absolute (A)
N50	G, A
A10	G, A
A16	G, A
A25	G, A
A40	G, A
A60	G, A
B10	G, A
B16	G, A
B25	G, A
B40	G
B60	G
C10	G
C16	G
C25	G
C40	G
	Code N50 A10 A16 A25 A40 A60 B10 B16 B25 B40 B60 C10 C16 C25

Range Code	Gauge (G) Absolute (A)
F15	G, A
F30	G, A
F60	G, A
G10	G, A
G15	G, A
G20	G, A
G30	G, A
G50	G
G60	G
H10	G
H15	G
H30	G
H50	G
H60	G
	Code F15 F30 F60 G10 G15 G20 G30 G50 G60 H10 H15 H30

Pressure Ports – See Page H-50 for Dimensions

Code	Description of Stainless Steel Fittings	
00	G 1/4 internal	
A0	G 1/4 external	
КО	7/16-20 UNF-3A external	
МО	M14 x 1.5 external	
Р0	G 1/2 manometer	
В0	1/4-18 NPT external	
GO	1/2-14 NPT external	
\$0	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	