

Pressure & Vacuum Flow Level & Temperature Tube & Fittings HVACR

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

P			
nput Pressure Range	0.5 to 400 bar: (7.5 to 6000 poi) 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); >20 x FS ≤ 1000 psi (60 bar);		
	$>20 \text{ x PS} \le 1000 \text{ psi (00 bar)},$ >5 x FS \le 6000 \text{ psi (400 bar)}		
Fatique 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 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)		
-			

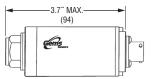




Dimensions in. (mm)

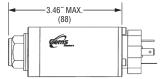
Max diameter 39mm, all models

Code C



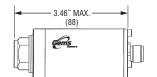
Six Pin Fixed Plug (10-6)

Code G



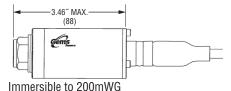
Fixed Plug to DIN 43650 Mating Connector Supplied

Code L

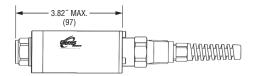


Electrical Connector M12 x 1 (5 Pin)

Code M



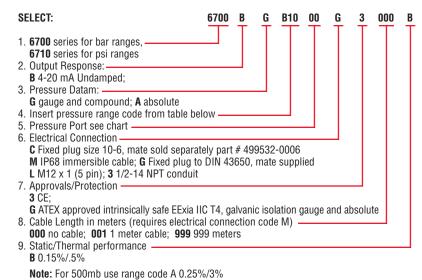
Code 3



1/2 - 14 NPT conduit

How to Order

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



Electrical Connection Code		Wiring		
		(+)	(-)	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

Electrical Connections

Pressure Range Code

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	6700 Model Bar Ranges	Range Code	Gauge (G) Absolute (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 500mb	N50	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 1	A10	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 1.6	A16	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 2.5	A25	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 4	A40	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 6	A60	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 10	B10	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 16	B16	G, A
0 to 60 B60 G 0 to 100 C10 G 0 to 160 C16 G 0 to 250 C25 G	0 to 25	B25	G, A
0 to 100 C10 G 0 to 160 C16 G 0 to 250 C25 G	0 to 40	B40	G
0 to 160	0 to 60	B60	G
0 to 250 C25 G	0 to 100	C10	G
	0 to 160	C16	G
0 to 400 G	0 to 250	C25	G
0 10 100	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	
AO	G 1/4 external	
КО	7/16-20 UNF-3A external	
MO	M14 x 1.5 external	
P0	G 1/2 manometer	
В0	1/4-18 NPT external	
GO	1/2-14 NPT external	
SO	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	