6600 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

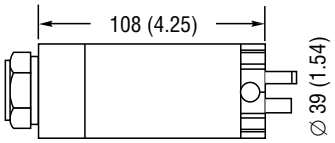
The 6600 series features customer accessible 5:1 turndown via a switch and potentiometer. Down ranging whether factory or user adjusted is ideal for applications requiring high overpressure. The 6600 are housed in a rugged enclosure for harsh conditions and features superb stability by incorporating Gems' CVD sensing element.

Specifications

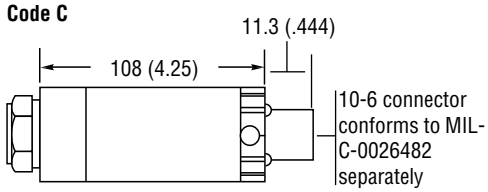
Input	
Pressure Range	6600: 0.2 to 400 bar; 6610: 3.0 to 6,000 psi
Proof Pressure	2 x Full Scale (FS) (1.5 x FS for 400 bar, >= 5000 psi)
Burst Pressure	>35 x FS <= 6 bar (100 psi); >20 x FS >=60 bar (1000 psi); >5 x FS <= 400 bar (6000 psi)
Fatigue Life	Designed for more than 100 million FS cycles
Performance	
Output	4-20 mA (2 wire)
Supply Voltage (Vs)	8 to 40 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	-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 -20° to 50° C (-4° to 122° F) elec conn code F -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% by potentiometer
Span Adjustment	17% to 100 % of span by potentiometer/switches
Max. Loop Resistance	(Vs-8) 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 and glass filled polyester IP40 for gauge datum elec code C IP65 for absolute datum elec code C IP65 for elec. code G IP68 for elec. code F
Vibration	35g peak sinusoidal, 5 to 2000 Hz
Acceleration	100g steady acceleration in any direction 0.036% FS/g for 0.75 bar (10 psi) range decreasing logarithmically to 0.0007% FS/g for 400 bar (6000 psi) range.
Shock	Withstands free fall to IEC 68-2-32 Procedure I
Approvals	CE, optional Intrinsically Safe EEx ia IIC T4 per CENELEC (Quality Assurance Certificate Supplied)
Weight	approx. 250 grams (additional; cable 75 g/m)

Dimensions mm (in.)

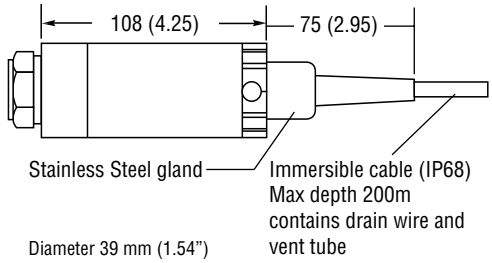
Code G



Code C



Code F



Diameter 39 mm (1.54")

How to Order

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

SELECT: **6600 B G B10 00 G 3 U B**

1. **6600** series for bar ranges, **6610** series for psi ranges
2. Output Response:
   B 4-20 mA Undamped; **2** 4-20 mA damped 3 second response
3. Pressure Datam: **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
   F submersible cable, to 200 meters; **G** Fixed plug to DIN 43650, mate supplied
7. Approvals/Protection
   3 CE; **B** CENELEC approved intrinsically safe EExia IIC T4, zener, gauge datum only
   G CENELEC approved intrinsically safe EExia IIC T4, galvanic isolation gauge and absolute
8. Cable Length in meters (requires electrical connection code F)
   U no cable **D** 1 **F** 5 **H** 15 **K** 25 **M** 40 **P** 75 **R** 125
   E 3 **G** 10 **J** 20 **L** 30 **N** 50 **Q** 100 **S** 150
9. Static/Thermal performance
   B 0.25%/2%

Note: For 500mb 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
F	IP 67 cable	R	BL	DRAIN

Cable Legend:

R = Red BL = Blue

Pressure Range Code

6600 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

6610 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 L-20 for Dimensions

Code	Description of Stainless Steel Fittings
OO	G 1/4 internal
AO	G 1/4 external
KO	7/16-20 UNF-3A external
MO	M14 x 1.5 external
PO	G 1/2 manometer
BO	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