

# 6600 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 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

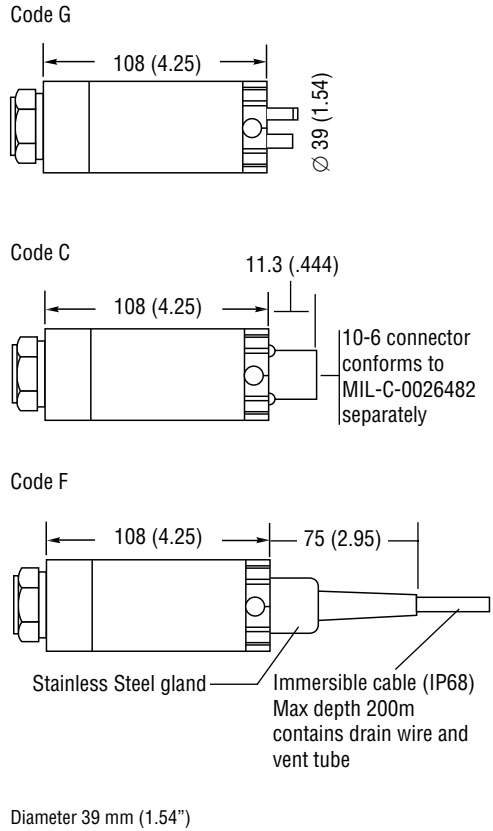
<b>Input</b>	
<b>Pressure Range</b>	6600, 0.5 to 400 bar; 6610 7.5 to 6,000 psi
<b>Proof Pressure</b>	2 x Full Scale (FS) (1.5 x FS for 400 bar, >= 5000 psi)
<b>Burst Pressure</b>	>35 x FS <= 6 bar (100 psi); >20 x FS >=60 bar (1000 psi); >5 x FS <= 400 bar (6000 psi)
<b>Fatigue Life</b>	Designed for more than 100 million FS cycles
<b>Performance</b>	
<b>Output</b>	4-20 mA (2 wire)
<b>Supply Voltage (Vs)</b>	8 to 40 Vdc
<b>Supply Voltage Sensitivity</b>	0.005% of max span/Volt
<b>Long Term Drift</b>	0.15% of max span/year (non-cumulative)
<b>Accuracy</b>	0.15 % FS typical
<b>Thermal Error Typical</b>	-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
<b>Operating Temperatures</b>	-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
<b>Zero Tolerance</b>	0.1 % span, typical
<b>Span Tolerance</b>	0.1% span, typical
<b>Zero Adjustment</b>	+/- 10% (100% at factory) by potentiometer
<b>Span Adjustment</b>	17% to 100 % of span by potentiometer/switches
<b>Max. Loop Resistance</b>	(Vs-8) x 50 ohms
<b>Mechanical Configuration</b>	
<b>Pressure Port</b>	see ordering chart
<b>Wetted Parts</b>	17-4 PH Stainless Steel
<b>Electrical Connection</b>	see ordering chart
<b>Enclosure</b>	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
<b>Vibration</b>	35g peak sinusoidal, 5 to 2000 Hz
<b>Acceleration</b>	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.
<b>Shock</b>	Withstands free fall to IEC 68-2-32 procedure 1
<b>Approvals</b>	CE, optional Intrinsically Safe EEx ia IIC T4 per CENELEC (Quality Assurance Certificate Supplied)
<b>Weight</b>	approx. 250 grams (additional; cable 75 g/m)

Electrical connection	Wiring	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  
B = Black



## Dimensions mm (in.)



**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 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  
**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%

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 30	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 for the 6600 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
<b>Immersible Sensors</b>	
10	Plastic Nose cone
20	Nose cone with restrictor
30	Nose cone w/ s steel sink weight

For Pressure Port dimensions see page 39

