

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 CVD sensing element.

Specifications

Input

Pressure Range	6600, 0.5 to 400 bar; 6610 7.5 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% (100% at factory) 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 1
Approvals	CE, optional Intrinsically Safe EEx ia IIC T4 per CENELEC (Quality Assurance Certificate Supplied)
Weight	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

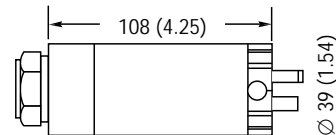
Cable Legend:

- R = Red
- B = Black

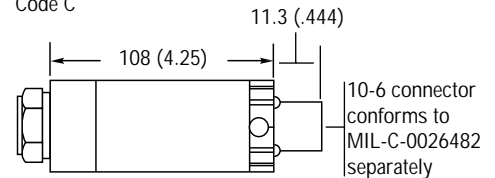


Dimensions mm (in.)

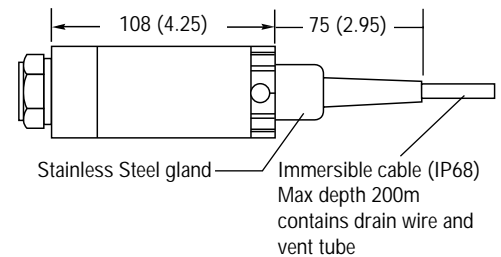
Code G



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:

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
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/ s steel sink weight



For Pressure Port dimensions see page 39