2800 Series High Performance Industrial Pressure Transmitters

- 1% Error Band over -30° to 100°C
- Customised Options
- Ranges from 0.5 to 400 bar
- Choice of Outputs

The 2800 series features stability and enhanced accuracy in a variety of enclosure options for demanding submersible and industrial applications. The 2800 features proven CVD sensing technology, an ASIC and modular packaging to provide a sensor with high performance over a wide temperature range. Modular construction allows customised options to be easily accommodated

Specifications

Input	
Pressure Range	Vacuum to 400 bar (6000 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	
Long Term Drift	0.2% FS/year (non-cumulative)
Accuracy	0.10% FS max.
Thermal Error	1% FS max.
Compensated Temperatures	-30° to +100°C (-20° to +212° F)
Operating Temperatures	-40° to 125° C (-40° to 260° F) for elec. codes C and D -20° to 50° C (-5° to 125° F) for elec. code M Amplified units >100°C maximum 24 Vdc supply
Zero Tolerance	1% of span
Span Tolerance	1% of span
Mechanical Configuration	
Pressure Port	see ordering chart
Wetted Parts	17-4 PH Stainless Steel
Electrical Connection	see ordering chart
Enclosure	316 ss, 17-4 PH ss IP40 for elec. code C Gauge Datum IP65 for elec. code C Absolute Datum IP66 for elec. code D IP68 for elec. code M
Vibration	35g peak sinusoidal, 5 to 2000 Hz
Acceleration	100g steady acceleration in any direction 0.032% FS/g for 1 bar (15 psi) range decreasing logorithmically to 0.0007% FS/g for 400 bar (6000 psi) range.
Shock	Withstands free fall to IEC 68-2-32 procedure 1
Approvals	CE
Weight	approx. 100 grams (additional cable; 75 g/m)

Individual Specifications

Voltage Output units	
Output	see ordering chart
Supply Voltage (Vs)	1.5 Vdc above span to 35 Vdc @ 6 mA
Supply Voltage Sensitivity	0.01% FS/Volt
Min. Load Resistance **Current Consumption**	(FS output / 2) Kohms approx 6 mA at 7.5V output
Current Output units	
Output	4-20 mA (2 wire)
Supply Voltage (Vs)	24 Vdc, (7-35 Vdc)
Supply Voltage Sensitivity	0.01% FS/Volt
Max. Loop Resistance	(Vs-7) x 50 ohms

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Connection Code			Current units (4-20mA)			Voltage units			
			(+)	(-)	EARTH	IN+	COM	OUT+	EARTH
C	"10-6 Bayonet"	PIN	A	B	E	A	C	B	E
D	"cable"		R	BK	DRAIN	R	BK	W	DRAIN
M	"Immersible		R	BL	DRAIN	R	W	Y	DRAIN

Cable Legend: R = Red
BL = Blue
BK = Black
W = White
Y = Yellow

How to Order

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

2800 B G A60 01 A 3 U A

Series
2800

Output
B - 4-20mA
C - 1-6V
D - 1-11V
H - 1-5V
J - 0.5-5.5V
R - 0-5V
S - 0-10V

Pressure Datum
A* - Absolute
G - Gauge
***Max absolute range is 25 bar.**

Pressure Range - bar
A10 - 0-1
A16 - 0-1.6
A25 - 0-2.5
A40 - 0-4
A60 - 0-6
B10 - 0-10
B16 - 0-16
B25 - 0-25
B40 - 0-40
B60 - 0-60
C10 - 0-100
C16 - 0-160
C25 - 0-250
C40 - 0-400
Vac = -1 bar
1A0 - Vac-0
1A6 - Vac-0.6
2A5 - Vac-1.5
4A0 - Vac-3
6A0 - Vac-5
1B0 - Vac-9
1B6 - Vac-15
2B5 - Vac-24
4B0 - Vac-39

Pressure Range – psi (see note 2)
F15 - 0-15
F30 - 0-30
F60 - 0-60
G10 - 0-100
G15 - 0-150
G20 - 0-200
G30 - 0-300
G50 - 0-500
G60 - 0-600
H10 - 0-1,000
H15 - 0-1,500
H20 - 0-2,000
H30 - 0-3,000
H40 - 0-4,000
H50 - 0-5,000
H60 - 0-6,000
Vac = -15 psi
1F5 - Vac-0
3F0 - Vac-15
6F0 - Vac-45
1G0 - Vac-85
1G5 - Vac-135
2G0 - Vac-185
3G0 - Vac-285

Pressure Port
01 - G1/4 External
02 - 1/4-18 NPT External
03 - G1/2 Manometer
04 - 7/16-20UNF to SAE J514
05 - G1/4 Ext. Soft Seal
08 - 1/8-27 NPT External
09 - G1/8 Internal
00 - G1/4 Internal
0A - R1/4 External
19 - Nose Cone

Electrical Connection
C - Fixed Plug Size 10-6 Mating Plug Not Supplied
D - Weatherproof cable IP66 (see note 1)
M - Moulded Cable Immersible Max. (See Note 1)

Performance Code
Accuracy/Thermal
A - .0.10%/1%

Cable Length
U - No Cable Fitted (See Note 1)
D - 1 Metre (3 feet)
E - 3 Metres (9 feet)
F - 5 Metres (16 feet)
G - 10 Metres (32 feet)

Apparatus Protection
RFI Protected CE Mark

Notes:
1. Where electrical connections **D** or **M** are specified, customer must select cable length from Table 1.
2 Additional Pressure Ranges are available. Please consult factory.

Table 1 - Cable Units

Code	Length (M)	Code	Length (M)	Code	Length (M)	Code	Length (M)	Code	Length (M)
U	No Cable Fitted	F	5	K	25	P	75	4	170
		G	10	L	30	O	100	5	200
D	1	H	15	M	40	R	125	6	225
E	3	J	20	N	50	S	150		

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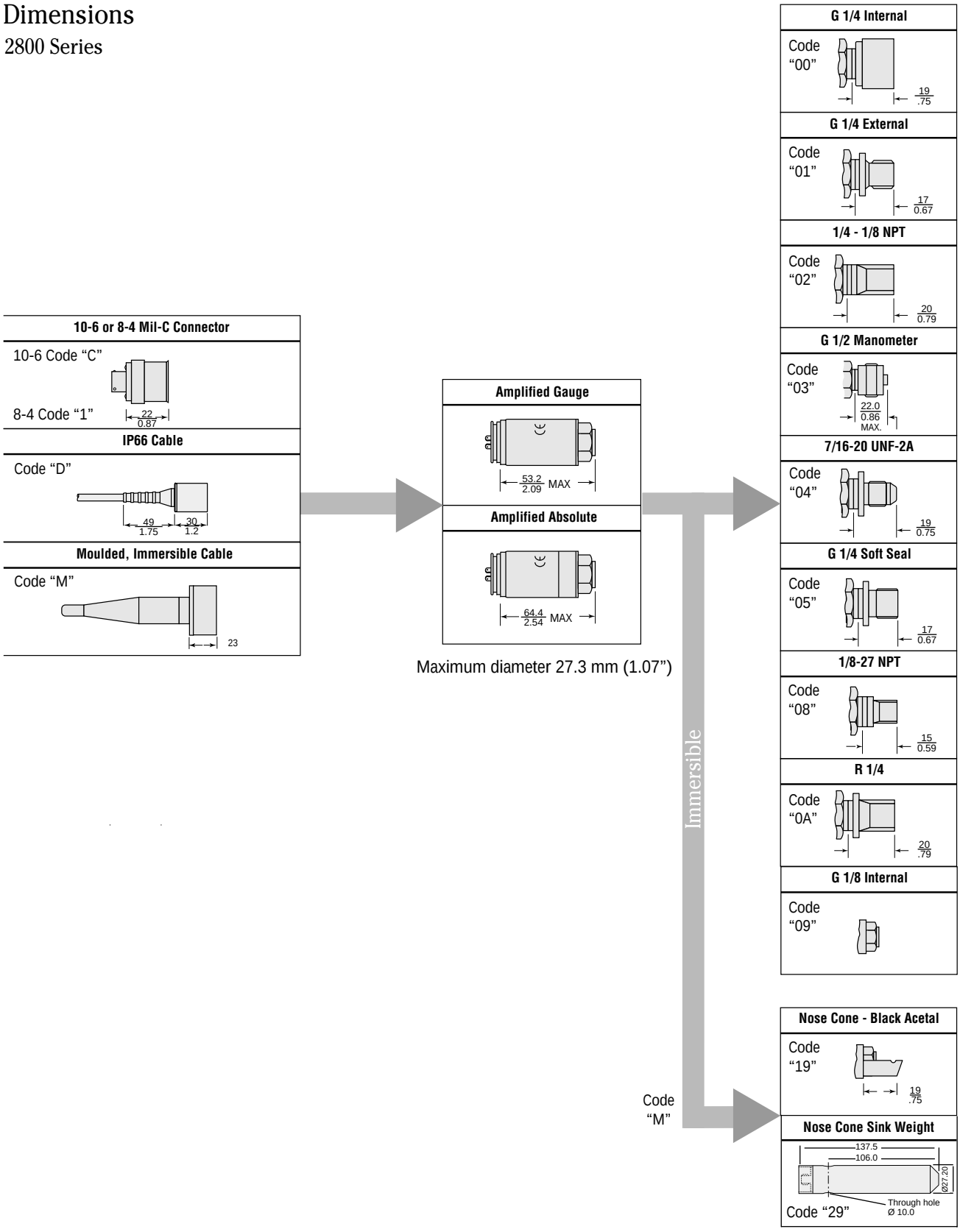
Dimensions

2800 Series



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