

2800 Series High Performance Industrial Pressure Transmitters

CVD TECHNOLOGY

PRESSURE TRANSDUCERS

- ▶ 1% Error band over -30° to 100°C
- ▶ Customised options
- ▶ Ranges from 0.5 to 400bar
- ▶ 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 400bar G (6000psi) 0 - 25bar Absolute
Proof Pressure	2 x Full Scale (FS) (1.5 x Fs for 400bar, >= 5000psi)
Burst Pressure	>35 x FS <= 6bar (100psi) >20 x FS >=60bar (1000psi) >5 x FS <= 400bar (6000psi)
Fatigue Life	Designed for more than 100 million FS cycles
Performance	
Long Term Drift	0.2% FS/year (non-cumulative)
Accuracy	0.1% 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
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 2000Hz
Acceleration	100g steady acceleration in any direction 0.032% FS/g for 1bar (15psi) range decreasing logarithmically to 0.0007% FS/g for 400bar (6000psi) range.
Shock	Withstands free fall to IEC 68-2-32 procedure 1
Approvals	CE
Weight	Approx. 100grams (additional cable; 75g/m)



* Standard ranges only

Individual Specifications

Voltage Output units	
Output	See ordering chart
Supply Voltage (Vs)	1.5Vdc above FS output to 35Vdc @ 6mA
Supply Voltage Sensitivity	0.01% FS/Volt
Min. Load Resistance	(FS output / 2) Kohms
Current Consumption	approx 6mA at 7.5V output
Current Output units	
Output	4-20mA (2 wire)
Supply Voltage (Vs)	24Vdc, (7-35Vdc) Above 100°C supply limited to 24Vdc
Supply Voltage Sensitivity	0.01% FS/Volt
Max. Loop Resistance	(Vs-7) x 50ohms

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	BL	DRAIN	R	W	Y	DRAIN
M	"Immersible"		R	BL	DRAIN	R	W	Y	DRAIN

Cable Legend: R = Red
BL = Blue
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 3 005 A

Series _____ **2800**

Output _____

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

Pressure Datum _____

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

Pressure Range - bar (additional intermediate pressure ranges available - consult factory)

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

Pressure Port _____

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

Electrical Connection _____

C - Fixed Plug Size 10-6 Mating Plug Not Supplied
D - Weatherproof cable IP66
M - Immersible Max depth 200 metres

Performance Code
Accuracy/Thermal
A - 0.1%/1%

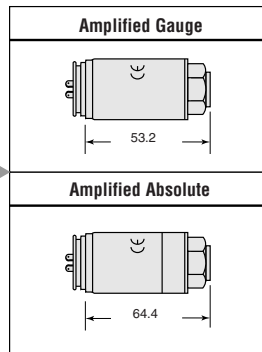
Cable Length
001 = 1 metre cable
099 = 99 metres cable
Applies to code D & M electrical connection only
Code C = 000

Apparatus Protection
RFI Protected CE Mark

Dimensions (in mm)

2800 Series

10-6 or 8-4 Mil-C Connector	
10-6 Code "C"	
8-4 Code "1"	
IP66 Cable	
Code "D"	
Immersible Cable	
Code "M"	



Maximum diameter 27.3mm

G 1/4 Internal	
Code "00"	
G 1/4 External	
Code "01"	
1/4 - 1/8 NPT	
Code "02"	
G 1/2 Manometer	
Code "03"	
7/16-20 UNF-2A	
Code "04"	
G 1/4 Soft Seal	
Code "05"	
1/8-27 NPT	
Code "08"	
R 1/4	
Code "0A"	
G 1/8 Internal	
Code "09"	

Nose Cone - Black Acetal	
Code "19"	
Nose Cone Sink Weight	
Code "29"	

Others - Consult factory

Code "M"