

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 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
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	(FS output / 2) Kohms
Current Consumption	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



CE

C RU US

PRESSURE TRANSDUCERS

Connection Code			Current units (4-20mA)			Voltage units			
		PIN	(+)	(-)	EARTH	IN+	COM	OUT+	EARTH
C	“10-6 Bayonet”		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

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 25 bar.

Pressure Range - bar

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 Range - psi (see note 2)

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

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

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 - .010%/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:



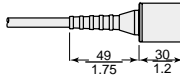
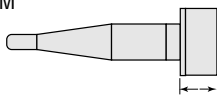
- Where electrical connections **D** or **M** are specified, customer must select cable length from Table 1.
- Additional Pressure Ranges are available. Please consult factory.


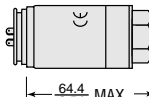
Table 1 - Cable Units

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		

Dimensions











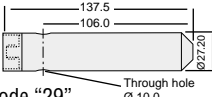
2800 Series

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

Amplified Gauge

53.2 2.09 MAX
Amplified Absolute

64.4 2.54 MAX

Maximum diameter 27.3 mm (1.07")

Immersible
Code "M"

G 1/4 Internal
Code "00"

19 .75
G 1/4 External
Code "01"

17 0.67
1/4 - 1/8 NPT
Code "02"

20 0.79
G 1/2 Manometer
Code "03"

22.0 0.86 MAX
7/16-20 UNF-2A
Code "04"

19 0.75
G 1/4 Soft Seal
Code "05"

17 0.67
1/8-27 NPT
Code "08"

15 0.59
R 1/4
Code "0A"

20 .79
G 1/8 Internal
Code "09"

Nose Cone - Black Acetal
Code "19"

19 .75
Nose Cone Sink Weight
Code "29"

137.5 106.0 Through hole Ø 10.0 Ø 27.20