2200 Series / 2600 Series – General Purpose Industrial Pressure Transducers

- Gauge, Absolute, Vacuum and Compound Pressure Models Available
- ▶ Submersible, General Purpose and Wash Down Enclosures
- ▶ High Stability Achieved by CVD Sensing Element
- Millivolt, Voltage and Current Output Models

The 2200 series features stability and accuracy in a variety of enclosure options. The 2600 series extends the packaging options via an all welded stainless steel back end for demanding submersible and industrial applications. The 2200 and the 2600 feature proven CVD sensing technology, an ASIC (amplified units), and modular packaging to provide a sensor line that can easily accommodate specials while not sacrificing high performance.

Specifications

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Input						
Pressure Range	Vacuum to 6000 psi (400 bar)					
Proof Pressure	2 x Full Scale (FS) (1.5 x Fs for 400 bar, ≥ 5000 psi)					
Burst Pressure	>35 x FS <= 100 psi (6 bar);					
	$>20 \times FS >= 1000 \text{ psi } (60 \text{ bar});$					
	>5 x FS <= 6000 psi (400 bar)					
Fatigue Life	Designed for more than 100 million FS cycles					
Performance						
Long Term Drift	0.2% FS/year (non-cumulative)					
Accuracy	0.25 % FS typical (optional 0.15% FS)					
Thermal Error	1.5% FS typical (optional 1% FS)					
Compensated Temperatures	-5°F to +180°F (-20°C to +80°C)					
Operating Temperatures	-40°F to +260°F (-40°C to +125°C) for elec. codes A, B, C, 1 -5°F to +180°F (-20°C to +80°C) for elec. codes 2, D, G, 3 -5°F to +125°F (-20°C to +50°C) for elec. codes F,M, P Amplified units >100°C maximum 24 VDC supply					
Zero Tolerance	1% of span					
Span Tolerance	1% of span					
Response Time	0.5 ms					
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 IP65 NEMA 4 for elec. codes A, B, C, D, G,1, 2, 3 IP67 for elec. code "F" IP68 for elec. codes M, (max depth 200 meters H ₂ 0) IP30 for elec. code "3" with flying leads					
Vibration	70g, peak to peak sinusoidal, 5 to 2000 Hz (Random Vibration: 20 to 2000 Hz @ ≈20g Peak per MIL-STD810E Method 514.4)					
Acceleration	100g steady acceleration in any direction 0.032% FS/g for 15 psi (1 bar) range decreasing logarithmically to 0.0007% FS/g for 6000 psi (400 bar) range.					
Shock	20g, 11 ms, per MIL-STD810E Method 516.4 Procedure I					
Approvals	CE, UR (22IC, 26IC, 22CS, 26CS)					
Weight	Approx. 100 grams (additional cable; 75 g/m)					







Individual Specifications

Millivolt Output units						
Output	100 mV (10 mv/v)					
Supply Voltage (Vs)	10 VDC (15 VDC max.) Regulated					
Bridge resistance	2600-6000 ohms					
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					

Electromagnetic Capability

Meets the requirement for CE marking of EN50081-2 for emissions and EN50082-2 for susceptibility.

Test Data:

- EN61000-4-2 Electrostatic Discharge. 8kV air discharge, 4kV contact discharge. Unit survived.
- ENV50140 Radiated RF Susceptibility. 10V/m, 80MHz-1GHz, 1kHz mod. Maximum recorded output error was <±1%
- ENV50204 Radiated RF Susceptibility to Mobile Telephones. 10V/m, 900MHz. Maximum recorded output error was <±1%.
- EN61000-4-4 Fast Burst Transient. 2kV, 5/50ns, 5kHz for 1 minute. Unit survived.
- ENV50141 Conducted RF Susceptibility. 10Vms, 1kHz mod, 150kHz - 80MHz. Maximum recorded output error was <±1%

Connection Code			mV units			Voltage units				Current units (4-20mA)			
			IN+	OUT+	OUT-	IN-	IN+	COM	OUT+	EARTH	(+)	(-)	EARTH
A, B, G	"DIN"	PIN	1	2	3	Е	1	2	3	4	1	2	4
С	"10-6 Bayonet"	PIN	Α	В	С	D	Α	С	В	E	Α	В	E
D	"cable"		R	Υ	BL	G	R	ВК	W	DRAIN	R	ВК	DRAIN
F	"IP 67 cable"		R	Υ	BL	G	R	BK	W	DRAIN	R	ВК	DRAIN
M	"Immersible"		R	Υ	BL	W	R	W	Υ	DRAIN	R	BL	DRAIN
1	"8-4 Bayonet"	PIN	А	В	С	D	А	С	В	D	А	В	D
2	"cable"		R	W	G	BK	R	ВК	W	DRAIN	R	ВК	DRAIN
3	"conduit & cable"	,	R	W	G	ВК	R	ВК	W	DRAIN	R	ВК	DRAIN

Cable Legend:

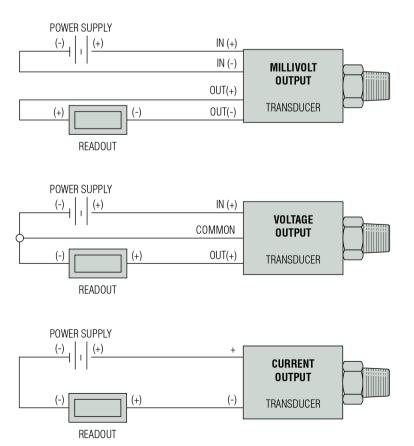
R = Red

BL = Blue

BK = Black

W = White

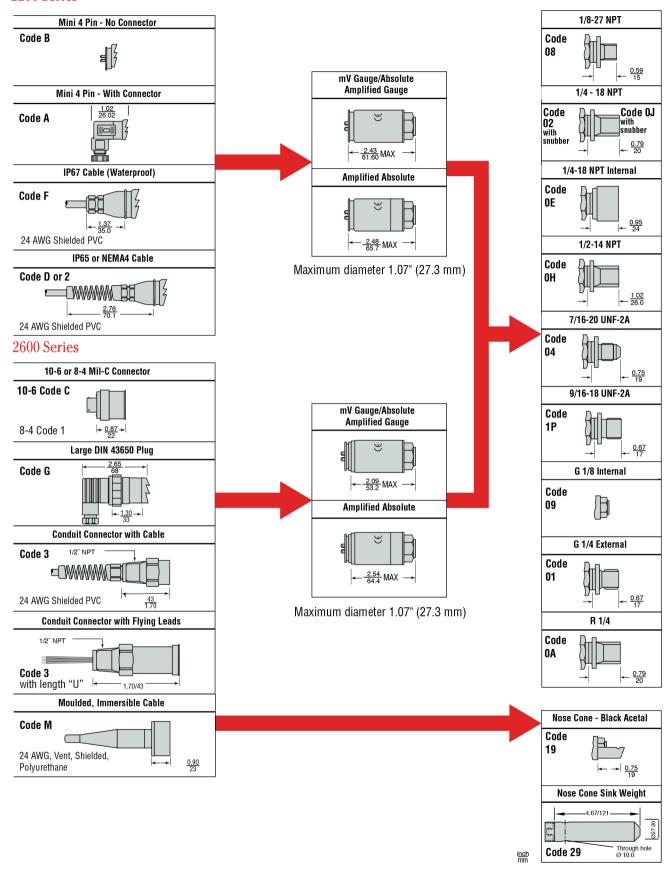
Y = Yellow





Dimensions

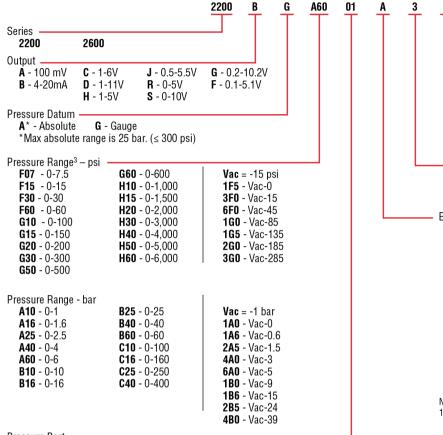
2200 Series





How to Order

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



Pressure Port

08 - 1/8-27 NPT External

02 - 1/4-18 NPT External

0J - 1/4 NPT External w/snubber

OE - 1/4 NPT Internal

OH - 1/2-14 NPT External

04 - 7/16-20 External (SAE #4, J514)

1P - 9/16-18 External (SAE #6, J1926-2)

IJ - 7/16-20 External (SAE #4, J1926-2)

European Threads

09 - G1/8 Internal

OA - R1/4 External

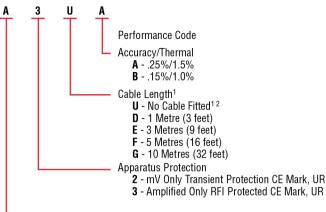
19 - Plastic Nose Cone



Submersible (2600 only)

29 - Sink Weight Nose Cone





Electrical Connection (See Notes)

2200 Series

A - 4 PIN DIN (Micro) Mating Connector Supplied

B - 4 PIN DIN (Micro) Mating Connector Not Supplied

2 - Cable Nemà 4 USA

D - Cable European Color Code

F - Cable Gland Metal IP67

2600 Series

C - Fixed Plug Size 10-6 Mating Plug Not Supplied

G - Fixed Plug To DIN 43650 Mating Plug Supplied

M - Moulded Cable Immersible

1 - Fixed Plug Size 8-4 Mating Plug Not Supplied

3 - Conduit Connector 1/2NPT Ext. 1M Cable²

Notes:

1. When electrical connection is cable please select a cable length from Table 1 below. When electrical connection is DIN or plug style "U" must be specified.

2. Where electrical connection -3 and cable length -U occur in part number, the unit will be supplied with flying leads (4-1/2" IP30).

3. Additional Pressure Ranges are available. Please consult factory.

Table 1 - Cable Length

(2600 Series) (2200 Series select "U" through "G")

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

Note: Maximum cable length on a 2200 is 10 meters.

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27051 28196 PS41-20-4MNB-C-FL18 29608 57143 156268 01750 173250 129660 PS41-30-4MNB-C-HC 42295 01801 165570 35651 27A1D0 173931-C 70824 160460 106-P30 1A 155481 87480 PS41-20-4MNB-C-HC 26717 164520 142700 79990 01701 70821 22445 01755 140620 01950 30288 PS41-30-4MNB-C-FL18 155421 160450 131100 43765 116826 142505