

# 2400 Slimline Borehole Pressure Transducers/Transmitters

- ▶ Triple sealed to ensure immersible integrity
- ▶ <10mseconds switch on/settling period
- ▶ 3/4 inch diameter

Gems Sensors 2400 Series immersible pressure transducer has been specifically designed to meet the rigours of long term immersibility. A custom designed hermetic header guarantees that water cannot enter the transducer even if the cable sheath is damaged during use. The large bore vent tube is connected directly to the back of the sensor which provides rapid venting, even on the longest cable run. The sensor itself is impervious to the effects of water guaranteeing long service life even in areas of high humidity, which can cause condensation. The all welded electronics enclosure is completely segregated from all other areas with the electronics themselves designed to provide fast switch on and settling to ensure maximum battery life and ease of calibration.

## Specifications

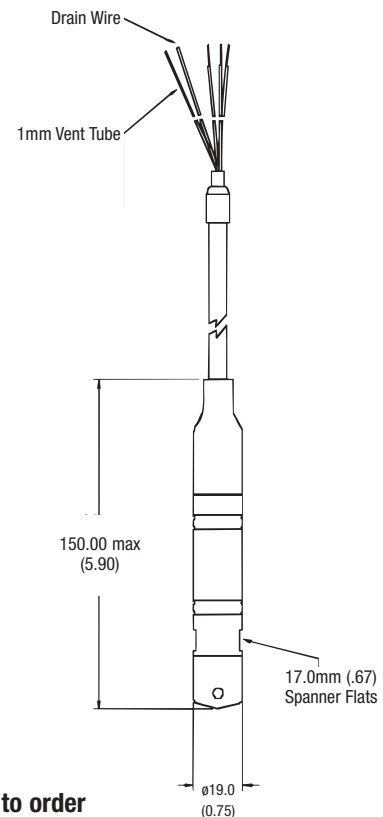
Input	
Pressure Range	0 to 13 Ft to 0 to 686 Ft.WG 0 to 32, 65, 162, 325, 656 Ft.WG
Proof Pressure	1.5 x Fs nominal range
Burst Pressure	3 x Fs
Fatigue Life	Designed for more than 100 million FS cycles
Performance	
Long Term Drift	0.2% FS/year (non-cumulative)
Accuracy	0.25% FS typical
Thermal Error	0.5% Typical (30° - 120°F)
Compensated Temperatures	15° to 120°F (-10 to +50°C)
Operating Temperatures	-40° to 180°F (-40 to +80°C)
Warm up Time	<10m seconds
Zero Tolerance	1% of span
Mechanical Configuration	
Pressure Port	G 1/4" AT external fitted with nosecone
Wetted Parts	316 Stainless Steel, Polyurethane, Acetal
Electrical Connection	Polyurethane Cable
Enclosure	IP68 immersible to 200mwg
Vibration	35g peak sinusoidal, 5 to 2000 Hz
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	0 to 10V
Supply Voltage (Vs)	13 to 28 Vdc
Supply Voltage Sensitivity	0.026% span/V
Min. Load Resistance	(FS output / 2) Kohms
Current Consumption	Approx 6 mA @ 8Vdc
Current Output units	
Output	4-20 mA (2 wire)
Supply Voltage (Vs)	24 Vdc, (8-28 Vdc)
Supply Voltage Sensitivity	0.026% span/V
Max. Loop Resistance	(Vs-7) x 50 ohms
Millivolt units	
Output	100mV ±1mV
Supply Voltage	10Vdc regulated (15Vdc max)
Bridge Resistance	3K5 ± 20% @ 25°C



Dimensions mm (inches)



## How to order

2400 X X XXX

**Cable Length**  
001 = 1 metre, 999 = 999 metres etc

Code	Millivolt
1	10mWG (33Ft. WG) (14.3 psi)
2	20mWG (66Ft. WG) (28.8 psi)
3	50mWG (164Ft. WG) (71.0 psi)
4	100mWG (328 Ft. WG) (142 psi)
5	200mWG (658 Ft. WG) (284 psi)

Code	(mA/V)*
1	4 to 10mWG (13 to 33 Ft. WG)(5.7 to 14.3 psi)
2	11 to 20mWG(36 to 66 Ft. WG)(15.6 to 26.6 psi)
3	21 to 40mWG(69 to 131 Ft. WG)(30 to 56.7 psi)
4	41 to 100mWG(134 to 328 Ft. WG)(58.5 to 142 psi)
5	101 to 200mWG(331 to 656 Ft. WG) (144 to 264 psi)

Code	Electrical Output
A	100mV Not Rangeable
B	4-20mA
S	0-10Vdc