

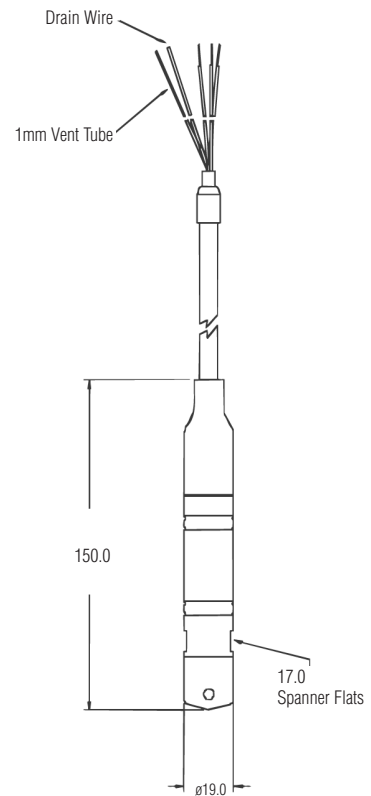
## 2400 Slimline Borehole Transducer/Transmitters

- ▶ Triple sealed to ensure immersible integrity
- ▶ <10ms switch on/settling period
- ▶ 19mm 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.



Dimensions (in mm)



### Specifications

<b>Input</b>	
Pressure Range	0 to 4 to 0 to 200mwg (mA & V) 0 to 10, 20, 50, 100, 200mwg (mV)
Proof Pressure	1.5 x Fs nominal range
Burst Pressure	3 x Fs
Fatigue Life	Designed for more than 100 million FS cycles
<b>Performance</b>	
Long Term Drift	0.2% FS/year (non-cumulative)
Accuracy	0.25% FS typical
Thermal Error	0.5% Typical 0-50°C
Compensated Temperatures	-10° to +50°C
Operating Temperatures	-40° to +80°C
Zero Tolerance	1% of span
<b>Mechanical Configuration</b>	
Pressure Port	G1/4" AT external fitted with nosecone
Wetted Parts	316 Stainless Steel, Polyurethane, Acetal
Electrical Connection	Polyurethane Cable
Enclosure	IP68 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. 100grams (additional; cable 75g/m)

### Individual Specifications

<b>Voltage Output units</b>	
Output	0 to 10V
Supply Voltage (Vs)	13 to 28Vdc
Supply Voltage Sensitivity	0.026% span/V
Min. Load Resistance	(FS output / 2) Kohms
Current Consumption	Approx 6mA @ 8Vdc
<b>Current Output units</b>	
Output	4-20mA (2 wire)
Supply Voltage (Vs)	24Vdc, (8-28 Vdc)
Supply Voltage Sensitivity	0.026% span/V
Max. Loop Resistance	(Vs-7) x 50 ohms
<b>Millivolt units</b>	
Output	100mV ±1mV
Supply Voltage	10Vdc regulated (15Vdc max)
Bridge Resistance	3K5 ± 20% @ 25°C
Sink Weight	P/N 562266

Wiring Details	mV	mA	Voltage
Red	+Ve excitation	+Ve	+Ve in
Yellow	+Ve output	-	+Ve out
White	-Ve excitation	-	Common
Blue	-Ve output	-Ve	-
Drain	Earth	Earth	Earth

### How to Order

2400	B	2	010	
Series				
				<b>Cable Length</b> 001 = 1 metre, 999 = 999 metres etc
				<b>Code Millivolt</b>
		1		10mWG
		2		20mWG
		3		50mWG
		4		100mWG
		5		200mWG
				<b>Code (mA/V)*</b>
		1		4mWG to 10mWG
		2		11mWG to 20mWG
		3		21mWG to 40mWG
		4		41mWG to 100mWG
		5		101mWG to 200mWG
				<b>Code Electrical Output</b>
		A		100mV Not Rangeable
		B*		4-20mA
		S*		0-10Vdc

\* For mA & Voltage units specify level range required at time of order.