

9600 Series - Slimline Groundwater Monitoring Transmitters

PRESSURE SENSORS

PRESSURE TRANSDUCERS

IMMERSIBLE TRANSDUCERS

- ▶ Remote ranging via pc interface
- ▶ 20mm diameter
- ▶ SDI-12 communications
- ▶ 318 S/S wetted parts
- ▶ Total error band $\leq \pm 0.1\%$ FS (-5 to +45°C)

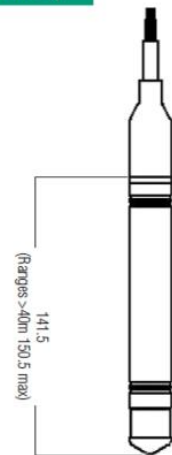
The 9600 series of pressure transducers from Gems Sensors has been designed specifically to meet the rigorous conditions for ground water monitoring while providing ultimate performance. The 9600 has built in specific gravity compensation, so gives a true level reading even when the media is subject to temperature changes over the ranges -5 to +45°C. Manufactured with 318 stainless steel wetted parts, which provide excellent corrosion resistance, the 9600 can be adjusted via the cable by means of a PC or hand-held interface which reduces the installation time and removes the need to withdraw the unit from the media for calibration. The SDI-12 communicating version offers minimal current draw for battery powered applications.



Specifications

Input	
Pressure Ranges	0 to 3 to 0 to 100mWG
Proof Pressure	1.5 x Fs nominal range
Burst Pressure	3 x Fs
Fatigue Life	Designed for more than 100 million FS cycles
Electrical	
Output	SDI-12 (Temp output $\pm 0.5^\circ\text{C}$) or 4 - 20mA
Supply Voltage	8-30Vdc
Current Consumption	Standby less than 450 μA Active less than 4mA average
Surge Protection	61000-4-5 \pm 4kv
Performance	
Long Term Drift	$\pm 0.05\%$ year
Accuracy	$\pm 0.05\%$
Total Error Band	$\leq \pm 0.1\%$ FS (-5 to +45°C)
Compensated Temperatures	-5 to 45°C
Operating Temperatures	-25 to +70°C (non-freezing)
Mechanical Configuration	
Pressure Port	Nosecone (M16 x 1.5 for calibration)
Wetted Parts:	Hastelloy, 318 Stainless Steel, Polyurethane, Acetal, Nitrile
Electrical Connection	Polyurethane Cable
Enclosure	IP68 to 200mWG
Shock	Withstands free fall to IEC 68-2-32 procedure 1
Approvals	CE
Weight	Approx. 100grams (additional, cable 75g/m)

Dimensions (in mm)



How to Order

	9600	05	L	01	0100M	0060M
WettedParts	9600 Hastelloy/318 Stainless Steel					
Output	05 SDI 12 03 4-20mA					
Measurand	L Level P Pressure					
Pressure Connection	00 Nosecone					
Calibrated Range	XXXXM mWG (003M to 100M) XXXF FtWG (010F to 330F) XXXP PSI (005P to 145P) XXBX Bar (00B3 to 10B0)					
Cable Length	XXXXM Cable length in metres (MAX 0060 for SDI-12)					

Wiring Details

	SDI-12	mA
Red	Positive excitation	+Ve
Blue	Negative excitation	-Ve
Green	SDI-12	Comms