



**PS100**  
Pressure Sensor

## Product Description

The Greenspan Analytical PS100 pressure sensor, with enhanced features and performance, provides an affordable solution to a majority of water level monitoring applications.

A ceramic capacitance transducer is supplied in a variety of standard ranges and features linearity and accuracy performance comparable to that of more expensive models. The high over range pressure rating and long-term stability of the ceramic sensor make this product suitable for demanding pressure-monitoring applications.

The new PS100 offers a 4 to 20mA output. The Delrin body guarantees long term performance in corrosive environments. The new construction featuring a moulded cable gland and double O-ring seals, ensure reliable performance over long periods of time. Stainless Steel bodies are available as an alternative where high temperature and hydrostatic pressures need to be accommodated.

A variety of nose cones are available. These cones can assist by inhibiting algal growth and also add extra weight to the sensor for more turbulent applications. ¼" BSP fittings are also available for process applications to allow mounting on to pipes and the outside of tanks.

To avoid moisture ingress via the vent tube on gauge pressure sensors, a closed vent system is provided which maintains atmospheric pressure within the ceramic capacitance transducer while preventing moisture condensing within the sensor cable.

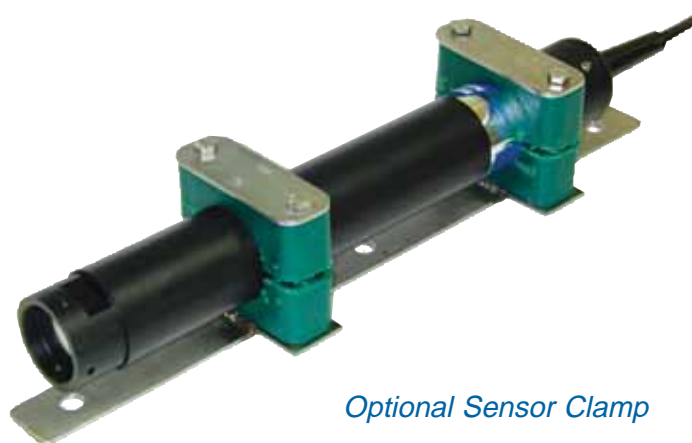
The PS100 continues to be the foundation stone of Greenspan Analytical's pressure sensor range. Other sensors in the range offer on board data logging capabilities and smaller bodies for insertion into bore holes. Please contact our sales team to find out more.

## Product Features

- Corrosion resistant Delrin body
- Ceramic capacitance transducer
- 4-20mA output
- 0.35% FS accuracy (@ 25°C)
- Closed vent system provided as standard
- Selection of nose cones
- Easy to install
- Low cost
- Long term stability better than 0.2% per annum
- Optional Stainless Steel body for high temperature/pressure applications
- Optional Detachable Cable Set.

## Product Benefits

- Suitable for long-term deployment in the harshest of conditions such as sewer wet wells.
- No risk of water ingress ensuring long term operation.
- Low maintenance
- No need for regular desiccant replacement resulting in fewer field visits
- Body configurations to meet all applications
- Algal build up can be minimised through use of a copper nose cones
- Low cost of ownership
- Reliability
- Easy to use
- Optional Detachable Cable Set which can be used on all other Greenspan sensors.



*Optional Sensor Clamp*

## Configuration and Installation Accessories

### Nose cones

Stainless steel nose cones can be fitted to the head of the sensor to assist in adding additional weight for turbulent applications. Copper nose cones can be used to the same effect but provide the added benefit of inhibiting algal growth.

### 1/4" BSP Adaptors

Available in brass and stainless steel, the adaptors allow the PS100 to be fitted to a pipe or the outside of a tank. The adaptors are available with male or female process connections.

### Closed Vent System

The CVS is available in multiples of units to accommodate varying lengths of vented cable. One unit will be sufficient for cable lengths of up to 70 metres. By completely isolating the vent tube from atmospheric air by means of a partially inflated polymer sack, the CVS allows barometric pressure to exist within the vent tube without allowing moisture to condense.

### Sensor clamp

Designed to secure the sensor to a support when located in turbulent applications. The sensor can be quickly removed from the clamp for maintenance.

## Applications

- Sewer wet wells
- Bore hole monitoring
- River and dam level monitoring
- Flood warning systems
- Tank level monitoring
- Process level and pressure monitoring



## PS100 Specification

Std Ranges available	Gauge	1, 2.5, 5, 10, 20, 40, 75, 100, 200m
	Absolute	20, 40, 75, 100, 200m
Other ranges available		YES
Std cable lengths		1, 3, 5, 10, 30, 50, 80, 100, 150, 200 metres 3, 10, 15, 30, 50, 65, 100, 165, 260, 325, 490, 650 feet. All cables for gauge sensors are fitted with the CVS closed vent system to prevent moisture condensation in the vent tube
Operating Temperature		0 to 50 °C
Temperature stability		+/- 1% FS
Overall Accuracy		
* combined linearity, hysteresis and repeatability	Pressure	+/- 0.35% FS (@ 25°C)
Long term Stability		0.2% FS per annum
External supply voltage		8 - 30 V
Reverse Polarity Protection		Yes
Surge current protected		to 2kV
Warm Up Time		2 secs
Sensor Type		Ceramic Capacitance Transducer
Weight		Delrin 650g S/S 1.66kg
Dimensions ( L x O.D.)	Delrin	347mm x 47mm
	S/S	347mm x 47mm
Cable		Polyurethane sheathed cable with internal 3mm vent tube Fitted with moulded cable gland Optional detachable cable set
Output		4-20mA
Wetted materials		Ceramic, Polyurethane, Delrin, Viton, Passivated Stainless Steel



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