



PS7000  
Pressure Sensor

## PS7000 Pressure Sensor

The enhanced features and performance of the new PS7000 pressure sensor provides users with an affordable solution to a range of water level monitoring applications. The linearity, accuracy and performance of this sensor is comparable to that of more expensive models.

The PS7000 has a standard output of 4-20mA with 0-2.5Vdc as an option. New features include the ability for the user to re-range the sensor with simple to use, field adjust software. This interface also allows the user to enter "True Level" inputs for fluid density and local gravity.

The 22.5mm diameter body makes the PS7000 ideal for use in 1 inch boreholes. A durable 316 stainless steel body, rugged ceramic capacitance transducer and double O Ring sealing ensures suitability for harsh environmental applications. The transducer also has a ¼" BSP fitting which provides a connection solution for process applications. The sensor comes fitted with a moulded, 10 metre, polyurethane cable as standard. Longer cable or a waterproof connector (WP7) can be fitted as an optional extra.

The sensor can be supplied in selected gauge or absolute pressure ranges. Supplied for use with gauge pressure sensors is Greenspan Analytical's closed vent system. This provides an effective barrier to water ingress, while still allowing atmospheric pressure to the transducer, without the need to continually replace desiccant modules.

Our new PS7000 sensor is easy to install and provides users with a rugged and reliable solution to long term unattended monitoring. For more information, please contact your nearest sales office.

## Features

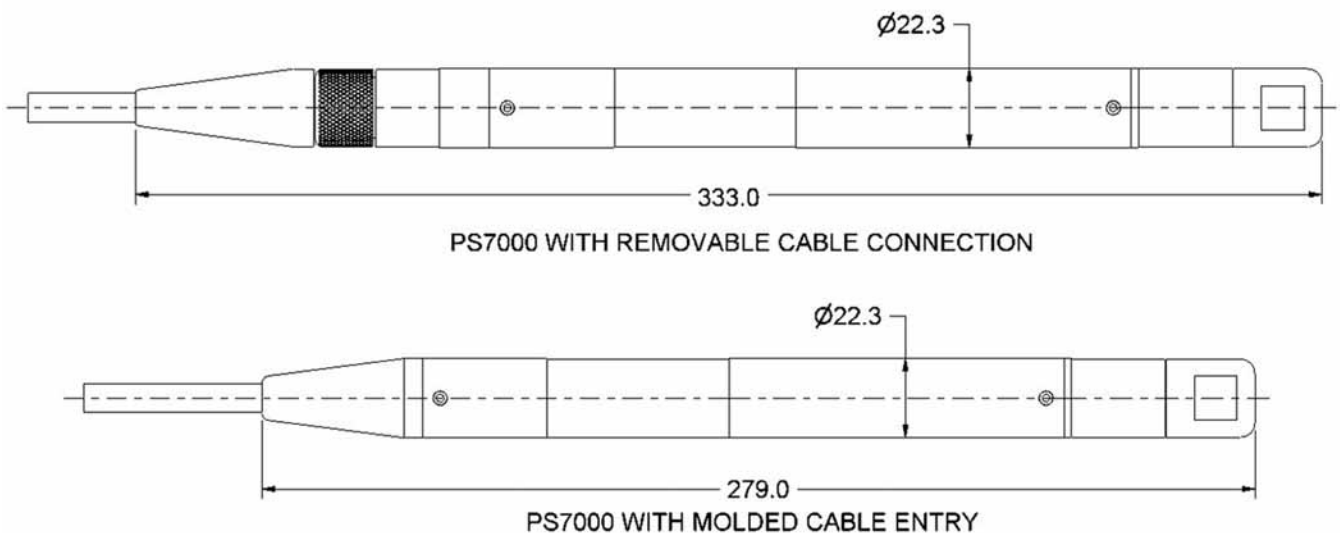
- Suitable for use in 1" bore holes
- 4-20mA or 0-2.5Vdc outputs
- 0.1% FS accuracy
- Field re-ranging
- 'True Level' user inputs for fluid density and local gravity
- Double O-ring design and moulded cable gland
- ¼" BSP fitting for process applications
- Passivated 316L Stainless Steel construction
- ½" diameter ceramic capacitance transducer
- Easy to install
- Low cost
- Long term stability better than 0.2% per annum
- Comes with standard 10m cable

## Benefits

- Ideal for narrow bore hole monitoring
- Low maintenance
- No need for regular desiccant replacement resulting in fewer field visits
- Low cost of ownership
- Reliability
- Easy to use

## Applications

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

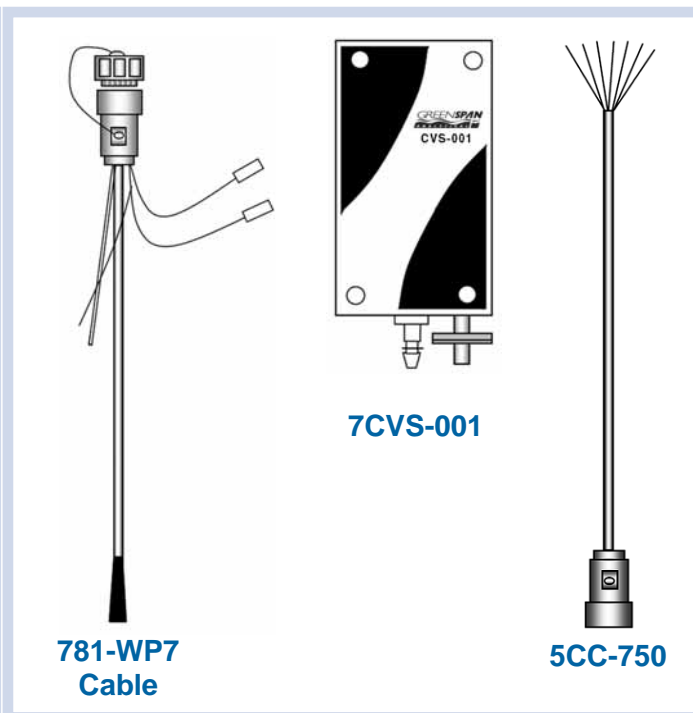


## PS7000 Specification

Std Ranges available	Gauge	2.5, 5, 10, 20, 40, 75, 100m
	Absolute	20, 40, 75, 100m
Other ranges available		Yes
Cable		10m Polyurethane sheathed cable with internal 3mm vent tube, moulded cable entry, bare wire connection
Other available cable lengths		20, 30, 50, 100, 150m 65, 100, 165, 325, 490ft All cables for gauge sensors must be fitted with the CVS closed vent system.
Operating Temperature		0 - 50°C
Overall Accuracy		
* combined linearity, hysteresis and repeatability		Pressure +/- 0.1% FS
Long term Stability		0.2% FS per annum
Zero offset & full scale		
Maximum variation		+/-0.02mA
External supply voltage		8 - 30 V
Reverse Polarity protected		Yes
Surge current protected		To 2kV
Warm Up Time to Stable Reading		<150 msecs
Sensor Type		1/2" Ceramic Capacitance Transducer
Weight		300g
Dimensions ( L x O.D.)		283 mm x 22.5 mm
Wetted materials		Ceramic, 316 Passivated Stainless Steel, Polyurethane, Viton

### Optional Extras and Accessories

Alternative interface option (instead of moulded cable)	Fitted WP7 waterproof connector
Detachable cables to suit WP7 connector	10, 20, 30, 50, 100, 150m fitted with 7-pin Hirschmann (HS7) connector. All cables for gauge sensors must be fitted with the CVS closed vent system.
Adaptor for Detachable	5CC-750 adaptor cable WP7 cables (HS7 to bare wire connection)
RS232 adaptor and field adjust software	For connection to PC
Cable Suspension Clamp	



### How to Order

The following information will be required for your order to be entered:

- Output (4-20mA or 0-2.5Vdc)
- Transducer type (Gauge or Absolute)
- Transducer range

- Moulded cable or WP7 Connector
- Cable length
- CVS (for gauge sensors)
- Accessories as required



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