

CROSS SMART SENSOR

PG7 PRESSURE & STATIC PRESSURE LEVEL GAUGE

DIGITAL TECHNOLOGY FOR OPTIMIZED MEASURES



FEATURES & BENEFITS

- High performance core elements
- Pressure and liquid level measurements
- Robust IP69/IP69K submersible enclosure
- Ultra low power consumption
- Optional Loop-powered sensor/transmitter with 4 to 20mA output and Hart protocol
- 1 second online response time
- High reliability, drift free
- 4000VDC surge protection
- Standard line-powered sensor with RS485/Modbus RTU Protocol, easy to connect with Delta-Phase's GDC (General Display & Controller) or user's terminals.
- Delta-Phase View™ Software is good for sensor configuration/calibration and datalogging

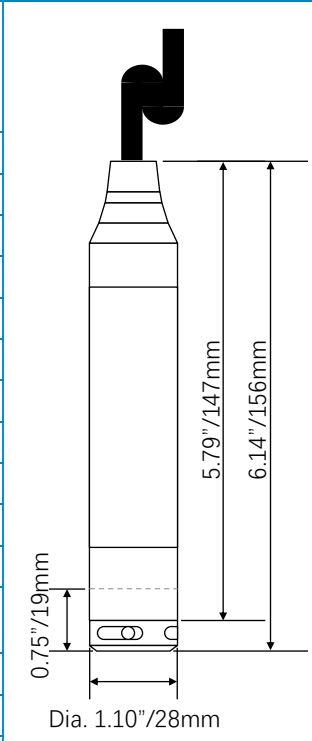
GENERAL

PG7 Pressure Gauge employs a small profile, piezoresistive silicon pressure sensor packaged in a 316L stainless steel housing with 1/4" NPT threaded fittings.

The package utilizes silicon oil to transfer pressure from a stainless steel diaphragm to the sensing element. A ceramic substrate contains laser-trimmed resistors for temperature compensation and offset correction.

The PG7 series sensors are flexible in power supply and outputs,

customers can choose line-powered sensor with RS485/Modbus communication, or loop-powered sensor/transmitter with 4 to 20 mA output and Hart protocol. And providing a simple, reliable, cost-saving process data. It offers remote monitoring, calibration, configuration and diagnostics capabilities. It is housed in a robust IP69 enclosure, connected by an 1000N tensile strength cable, providing up to 1.2km digital data transmission, ideally used in water/wastewater industries.

SPECIFICATIONS				DIMENSION
Range	Gauge Pressure:	0 to 100 MPa Max.	0 to 5 kPa Min.	
	Absolute Pressure:	0 to 3.5 MPa Max.	0 to 10 kPa Min.	
	Differential Pressure:	0 to 3.5 MPa Max.	0 to 10 kPa Min.	
	Level:	0 to 300 m		
Accuracy	±0.2% <i>Optional higher accuracies down to ±0.02%, consult factory.</i>			
Repeatability	±0.025% FS			
Stability	0.1% FS/Year			
Temp. Drift	0.03% FS/°C			
Respond Time	1s			
Overload	2 times of range			
Burst	3 times of range			
Temp. Sensor	Pt100			
Operate Temp.	-40 °C to 85 °C, instantaneous 130 °C			
Temp. Accuracy	±1% °C			
Storage Temp.	-40 °C to 85 °C			
Power & Output	8 to 36 VDC line-powered sensor with RS485/Modbus RTU; 8 to 36 VDC Loop-Powered sensor/transmitter, 4 to 20 mA output with Hart			
Humidity	0 to 100%RH			
Process Connection	Flange or Screw Thread			
Waterproof	IP69			

ORDER CODE

PG7 Pressure & Static Pressure Level Gauge

PG7	-	(Default) Remote Sensor, line-powered with RS485/Modbus RTU, no display		
	-R	Remote Sensor and transmitter with display, Loop Powered, 4-20mA output		
	-I	Integral transmitter with display (No Cable). Loop Powered, 4-20mA output		
		G	Gauge Pressure	
		A	Absolute Pressure	
		D	Differential Pressure	
			Gauge Pressure:	0 to 100 MPa Max. 0 to 5 kPa Min.
			Absolute Pressure:	0 to 3.5 MPa Max. 0 to 10 kPa Min.
			Differential Pressure:	0 to 3.5 MPa Max. 0 to 10 kPa Min.
			Level:	0 to 300 m
			Cable For Remote model	
			-C10	10' Remote Cable
			-C30	30' Remote Cable
			-C50	50' Remote Cable
			<i>For other lengths contact factory</i>	
PG7	-R	A	(0~10m)	-C30



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