

GCL Series-Submersible Level Transmitter

- Ranges from 150 mm wg to 160 m wg
- Seawater model with Duplex/Hastelloy Construction
- All Welded Sensor

The GCL series are submersible transmitters with on board signal conditioning for the LVDT sensor. The 1F transmitter has a recessed diaphragm protected by a plastic nose and features all stainless steel construction. The 2F transmitter has an exposed diaphragm and is suitable for use on clean liquids, sewage sludge, highly viscous liquids, and slurries. The 3F transmitter has a recessed diaphragm protected by a plastic nose and features Duplex/Hastelloy construction for sea water applications



Specifications

Input	
Pressure Range	150 mm wg to 160 m wg (6 in wg to 227 psi)
Proof Pressure*	4 x max span
Maximum Vacuum	50% of max span
Burst Pressure	10 x FS
Performance	
Output	4-20 mA (2 wire)
Supply Voltage (Vs)	8 to 30 Vdc
Supply Voltage Sensitivity	0.01% of max span/Volt
Zero Stability	0.4% of max span per year non cumulative
Accuracy	0.25 % of max span (typical)
Thermal Error	2.5 % of max span (typical)
Compensated Temperatures	0° to 50° C (32° to 120° F)
Operating Temperatures	0° to 70° C (32° to 158° F) Sensor
Response Time	0.1 second
Zero Tolerance	1% of span
Span Tolerance	1% of span
Zero Adjustment	+/- 10% of max span factory adjusted
Span Adjustment	25% to 100 % of max span factory adjusted
Max. Loop Resistance	(Vs-8) x 50
Mechanical Configuration	
Pressure Port	see diagram
Wetted Parts	Diaphragm 17-7 PH ss, body 316 ss models 1F & 2F Diaphragm Hastelloy, body Duplex model 3F
Electrical Connection	Polyurethane sheathed cable with 1.5 mm dia. vent, 4 conductors, and 1 drain, temp limits -40 to 85 C
Enclosure	IP 68
Approvals	CE
Weight	230 grams (cable 75 grams/m)

*These pressures do not cause a zero shift greater than 5% of the max span.

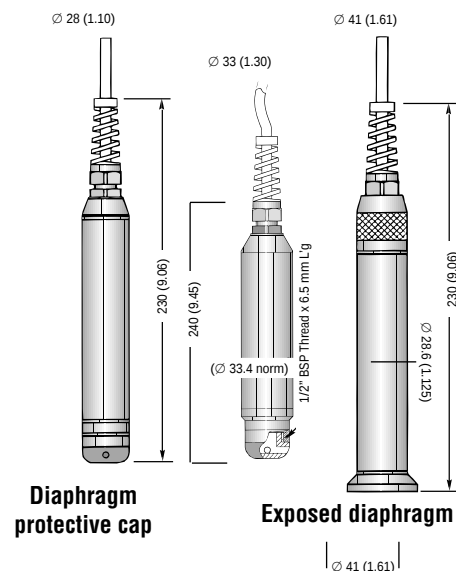
How to Order

Use the **bold** characters from the chart below to construct a product code

SELECT:

	GCL	D	3F	860	/U(10)
1. Sensor Type					
1F 28 mm dia.	17-7PH ss	diaphragm w/nose cone			
2F 40 mm dia.	17-7PH ss	exposed diaphragm			
3F 33 mm dia.	Hastelloy C	diaphragm			
2. Pressure Range					
841 600 mm wg (24" wg)	type 2F				
851 1600 mm wg (63" wg)	type 2F				
860 4 m wg (13ft wg)	type 1F, 2F, 3F				
870 10 m wg (33ft wg)	type 1F, 2F, 3F				
872 24 m wg (79ft wg)	type 1F 3F				
881 60 m wg (197 ft wg)	type 1F 3F				
891 160m wg (525 ft wg)	type 1F				
3. Submersible cable length in meters					

Dimensions mm (in.)



Diaphragm protective cap

Exposed diaphragm