

# GAL Series-Slim Submersible Transmitters with Remote Electronics

- ▶ Low ranges from 400 mm wg to 160 m wg
- ▶ Turndown Capabilities with Remote Electronic
- ▶ All Welded Sensor

The GAL series packages LVDT sensor technology in three different sensors each with a remote electronic package that allows for zero and span calibration. The LG sensor has an exposed diaphragm and is suitable for use on clean liquids, liquids with suspended solids, highly viscous liquids, and slurries. The LT sensor has a recessed diaphragm protected by a plastic nose and is suitable for use on low viscosity liquids with less than 5 % suspended solids. The LM sensor has a recessed diaphragm and a protective nose cap in only a 17.6 mm diameter enclosure, which is designed for use in boreholes and other tight spaces. The LM is suitable for use on low viscosity liquids with less than 5 % suspended solids.

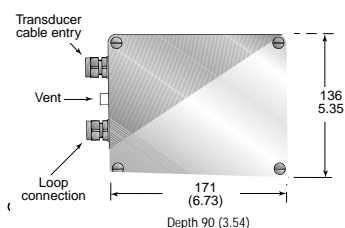
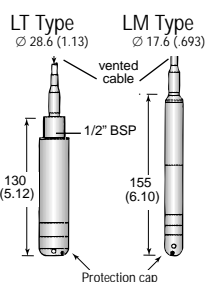
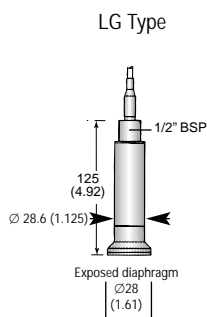


## Specifications

Input	
Pressure Range	400 mm wg to 160 m wg (1.6 in wg to 227 psi)
Proof Pressure*	10 x Full Scale (FS) for ranges < 6 bar 2 x FS for ranges over 16 bar
Maximum Vacuum	Full vacuum (50%FS <= 1 bar range)
Burst Pressure	10 x FS
Performance	
Output	4-20 mA (2 wire)
Supply Voltage (Vs)	10 to 60 Vdc
Supply Voltage Sensitivity	0.005% of max span/Volt
Zero Stability	0.2% per year non cumulative
Linearity & Hysteresis	0.15 % of max span (typical)
Repeatability	0.05% of max span
Thermal Error	0.5% of max span (typical)
Compensated Temperatures	0-50 C ( 32 to 120 F)
Operating Temperatures	-20° to 85° C (-4° to 158° F) Sensor
Remote Electronics Temp	-10° to 70° C (15° to 158° F)
Response Time	Adjustable 1 to 12 seconds
Zero Adjustment	+/- 100%
Span Adjustment	10% to 100 % of span
Max. Loop Resistance	(Vs-10) x 50 ohms
Mechanical Configuration	
Pressure Port	see diagram
Wetted Parts	Diaphragm 17-7 PH ss or 15-7 MO ss (optional 316 SS) plus enclosure and cable
Electrical Connection	Polyurethane sheathed cable with 1.5 mm dia. vent, 4 conductors, and 1 drain,
Enclosure	316 SS sensor (Remote Electronics IP65, ABS plastic case)
Approvals	CE
Weight	230 grams (Additional: cable 75 grams/m, enclosure 1.5 kg)

\*These pressures do not cause a zero shift greater than 3% FS.

## Dimensions mm (in.)



## How To Order

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

<b>SELECT:</b>	<b>GAL COP LG 860 B E X / U (10)</b>
1. Sensor Type	<b>LG</b> 40mm dia. with exposed diaphragm <b>LT</b> 28.6mm dia. with nose cone <b>LM</b> 17mm dia. with nose cone
2. Pressure Range	<b>840</b> 400mm wg (15"wg) Type LG <b>851</b> 1600mm wg (63"wg) Type LG <b>860</b> 4m wg (13ft wg) Type LG, LT <b>870</b> 10m wg (33ft wg) Type LG, LT, LM <b>872</b> 24m wg (78ft wg) Type LT, LM <b>881</b> 60m wg (196ft wg) Type LT, LM <b>891</b> 160m wg (525ft wg) Type LT, LM
3. Diaphragm Material	<b>E</b> 15/7 Mo and 17-4 PH ss; <b>B</b> Optional 316ss
4. Submersible cable length in meters	<b>X</b> (10)