

Pressure Transmitters for Subsea Control Systems

Bringing reliability and performance to sensors engineered for subsea applications

With over 20 years of experience in designing and manufacturing sensors for subsea oil and gas applications, LORD Sensing, Stellar Technology continues to provide new products and capabilities for this demanding market. In addition to our existing single port and differential Subsea Control Module (SCM) sensors designs, we are now offering our new “mini” pod sensor for use on subsea manifold systems where system and safety critical hydraulic pressure sensors are required.

Like our DT19 Series differential pressure transmitters, the new miniature GT21 Series product is rated for 15,000 feet of seawater operation and high pressure fluid operation with secondary containment in a diminutive sensor envelope (on the order of our standard GT2114 model) that enables subsea control designers to incorporate more pressure feedback into even smaller system designs including ROVs and other subsea module embedded sensing applications.

Features & Options

DT19 Series - Subsea Differential Pressure Sensors

- Differential pressure ranges from 3,000 to 10,000 psid
- Secondary containment up to 16,600 psi
- Rated to 15,000 feet seawater
- ATEX and CSA certified for Intrinsic Safety

GT21 Series – Miniature Manifold Mount Pressure Sensors

- Up to 20,000 psi measuring range
- Secondary containment up to 20,000 psi
- Rated to 15,000 feet seawater
- Complaint to API 17F
- Dual Pressure + Temperature output option

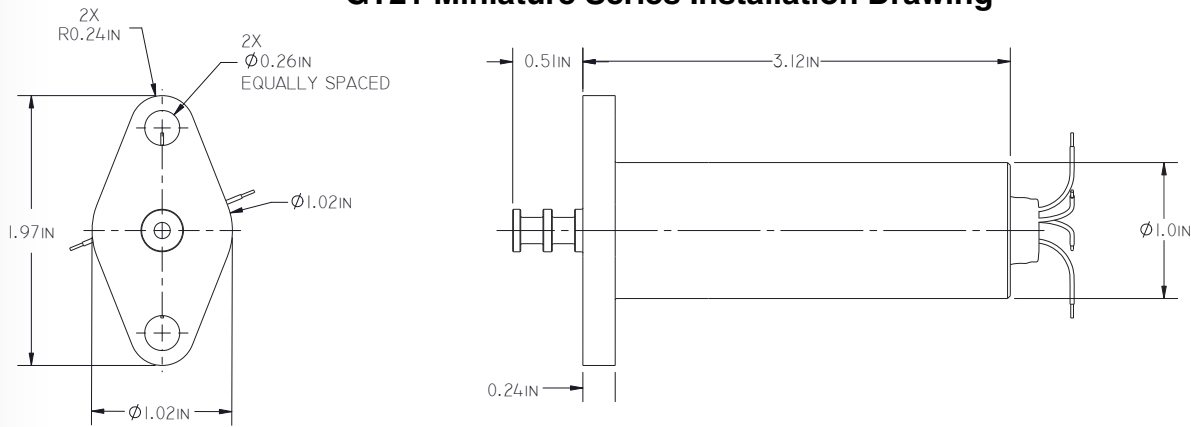


GT21 Miniature Series Specifications

- Pressure Range.....Up to 20,000 psi gauge
- Static Error Band..... $\leq 0.1\%$ of Full Scale Output
- Output Signal.....4-20 mA
- Excitation.....9-30 Vdc
- Electrical Connection.....Customer specified
- Operating Temperature.....-40 to 158 °F (compensated 23 to 104 °F)
- Construction.....Stainless Steel Housing / Inconel Sensing Element
- Pressure Fitting.....Manifold mount flange (customer specified)
- Proof / Burst Pressure.....1.5 x Range / 2 x Range
- Secondary Containment.....20,000 psi
- Depth Rating.....15,000 ft seawater (6,600 psi)



GT21 Miniature Series Installation Drawing



DT19 Subsea Series Specifications

- Typical Pressure Ranges.....3,000, 6,000 and 10,000 psi differential
- Accuracy..... $\leq 0.25\%$ of Full Scale Output
- Output Signal.....4-20 mA
- Excitation.....9-30 Vdc
- Electrical Connection.....Customer specified
- Operating Temperature.....-40 to 185 °F (compensated 0 to 140 °F)
- Construction.....Stainless Steel Housing / Inconel Sensing Element
- Pressure Fitting.....7/16-20 per SAE J1926 – 1-4 or other customer specified
- Proof / Burst Pressure.....1.5 x Range / 2.0 x Range
- Secondary Containment.....16,600 psi
- Depth Rating.....15,000 ft seawater (6,600 psi)



DT19 Subsea Series Installation Drawing

