

precise
DOWNHOLE SOLUTIONS™



Precise Bubble Tube Technology

A Cost-Effective Pressure Monitoring
Solution for Extreme Temperatures



>1000°C
Service Temperature



Simple Installation
& Durable Installation

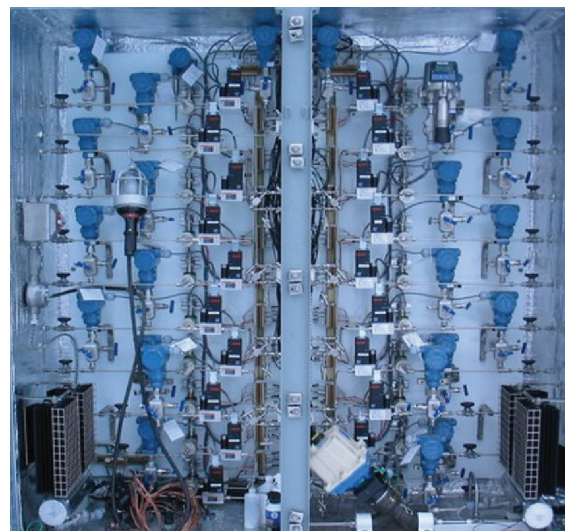


Accuracy Up
to +/- 0.5% F.S.



Proven, Cost-Effective
Technology

- Precise's bubble tube technology can be used in almost any environment (corrosive, acidic, volatile, hazardous, molten, cryogenic)
- Pressure ranges are only limited to working pressure of tubing
- Numerous alloy selections, tailored to your application
- Compatible with all downhole pumps & artificial lift methods
- Unaffected by electromagnetic interference (EMI)
- Pressure monitoring can be combined with temperature sensors (thermocouples, RTD's, thermistors, fiber optics)
- Surface equipment is custom manufactured and rated to Class 1, Division 1
- Data can be transmitted via radio, cellular or satellite



Precise Bubble Tube Technology



BUBBLE TUBE SPECIFICATIONS

| | |
|--|-----------------------|
| Pressure Accuracy | Up to 0.5% Full Scale |
| Pressure Range | Up to 30,000 psi |
| Service Temperature Range | Cryogenic to >1000°C |
| Temperature Sensor Integration Compatible | ✓ |
| Vibration & Shock Immunity | ✓ |
| Intrinsically Safe | ✓ |
| Resistant to Turbulence and Solids Content | ✓ |
| Immune to Changes in Viscosities | ✓ |
| Simple Equipment Setup | ✓ |
| Compact Surface Equipment | ✓ |
| Fully Automated Capability | ✓ |

BUBBLE TUBE MATERIAL SPECIFICATIONS (TYPICAL)

| | |
|--------------------|---|
| Tube Diameter | 1/8", 1/4", 3/8", 1/2", 5/8" |
| Wall Thickness | 0.028", 0.035", 0.049", 0.065" |
| Tubing Composition | 316 Stainless Steel, 2205 Duplex, Inconel |



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