

### Completion Force Gauge

#### Application

Measure your tubing stress and avoid catastrophic completion failures.

Enhanced oil recovery methods can have significant thermal differentials. Thermal cycles have the capacity of unloading or overloading pre-stressed completion assemblies.

The Completion Force Gauge allows operators to monitor and track the downhole forces in real-time for the life of the completion.

#### Features

- Real-Time Data
- Downhole Tension and Compression
- Downhole Internal and External Pressure
- Temperature

#### Benefits

Fully welded construction with pressure-testable, metal-to-metal, redundant cablehead design. Digital piezoelectric pressure gauge technology compensates the axial strain data against internal and external pressure changes. The internal resistive thermal device compensates the strain data against thermal changes, delivering pure compression and tension strain data.

Custom Connections and Sizes Available.

Completion Force Gauge		
OD	Pressure	Part No.
4.370"	15,000 psi	109646
Specifications		
	Pressure	Temperature
Accuracy	0.22% F.S.	0.25°C
Resolution	0.0003% F.S.	0.005°C
Drift	< 3 psi/year	< 0.1°C/year
Compression and Tension		
Range	-50,000 lb to 50,000	
Accuracy	1% F.S.	
Max Sampling	10 Hz	

