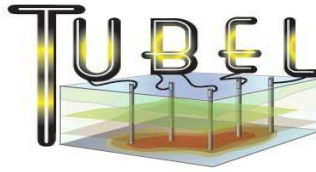


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PRODUCT DATASHEET

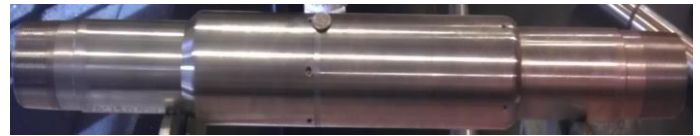
Wireless Production Monitoring Gauge

KEY FEATURES

- **Wireless Communications**
- **Small diameter for in line tubing deployment**
- **Multiple systems deployed in a single well**
- **Permanent or short term deployment with 3 years maximum life in well.**
- **Pressure and temperature sensors**
- **Tubing and/or Annulus monitoring**
- **High speed data acquisition – 1sample per second**

APPLICATIONS

- **Production monitoring**
- **Pressure build up**
- **Cross well monitoring**
- **Short term build up tests for formation evaluation**
- **Outside pipe pressure monitoring for excessive well pressures**



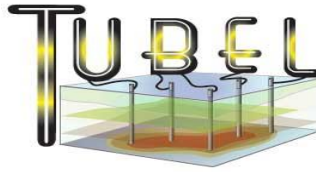
Tubel Energy provides a Smart Wireless Gauge System for monitor pressure and temperature inside a wellbore. The Wireless Gauge can be used to monitor tubing and/or annulus pressure and temperature. The system(s) is deployed as part of the production tubing and stays in the well permanently operating for an average of 3 years.

The Wireless Gauge stores the acquired data in its memory and transfers the data to a Wireless Receiver deployed in the well using slickline or electric line when required by the operator. The status of the data transfer is monitored at the surface in real time.

A SCADA system receives the data from the Wireless Receiver once the receiver is returned to the surface. The data is loaded into a PC for processing.

The Wireless Gauge system works in the wellbore collecting production and pressure build up data for the life of the battery pack. Multiple wireless gauge systems can be deployed in the same tubing string.

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Specifications

Pressure	
Sensor	Sapphire and Strain
Standard Ranges	1,500 to 10,000 psi
Maximum Overpressure	5.0% Full Scale
Accuracy	0.1% Full Scale
Long Term Stability	0.1% Full Scale
Drift	< 3 psi / year
Resolution	0.025 % Full Scale
Response Time	Instantaneous
Power	
Source	Batteries
Battery Life	3 years at 210 F
Data Acquisition	
Record Contents	Time, Pressure, Temperature
Sample location	Tubing or Annulus
Sample Interval	1.0 second
Total Samples	4 million samples
Downhole Comm.	Wireless
Surface Comm.	Wireless
Software	Windows Compatible

Gauge Housing

2 7/8 inch Pipe	
OD	3.75 inches
ID	2.305 inches
Length	42 inches

Receiver

Diameter	1 11/16 inches
Length	20 inches
Interface	Go Connection
Power	Internal Batteries
Storage	4 million samples

For More information contact:

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