DOWNHOLE WIRELESS PT SENSOR SYSTEM – ANNULUS B

Real-time monitoring of Annulus B pressure on subsea wells

Emerson's Roxar™ Downhole Wireless PT Sensor System - Annulus B allows the continuous monitoring of pressure and temperature in the B annulus of a sub-sea well. This has previously not been possible, but subsea wells can now have a much higher level of confirmed well barrier visibility, enabling improved overall risk assessment, better well management and extended production up-time.

The system consists of a casing mounted Roxar downhole Transponder Carrier with integral antenna and PT sensor. At the tubing side, a corresponding Roxar downhole Reader Carrier is mounted with an antenna and reader section that is connected to the standard Roxar Integrated Downhole Network (IDN) cable.

Data and power to the PT sensor is transmitted wirelessly between the two antennas. The Roxar downhole Transponder Carrier system is fully sealed from factory and has no potential leak paths. The electronics are activated when power is applied to the Roxar IDN from the surface.

Applications

- Subsea and TLP wells
- Production and injection wells
- Gas lift wells, with high pressure gas in A annulus

Casing sizes	10 3/4"
Tubing sizes	5 1/2", 7"
Measurement frequency	Up to 1 per second
Pressure range	1,400 bar (20,000 psi)
Measurement technology	Quartz crystal
Electronics technology	Silicon-On-Insulator

Key Benefits

- Provides important new data allowing for a more in-depth risk assessment of critical well barriers
- Simple to integrate, can use the same interface card, cable and wellhead feedthroughs as Roxar reservoir gauges
- High-integrity design with no casing penetrations
- Real-time pressure data can confirm barriers and allow production to continue

The Wireless PT – Annulus B Sensor System is a complete engineered solution. Other sizes available on request.

www.Emerson.com/Roxar

ROXAR™

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