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TECHNICAL DATA SHEET

QPC

Quartz Pressure & Casing Collar Locator

This combined quartz pressure and casing collar locator (CCL) tool is designed to minimise tool length. A high sensitivity Quartzdyne sensor is used for the pressure measurement along with a rare earth magnet CCL detector.

The resonant frequency of a shaped quartz crystal varies with the applied pressure. Using this high sensitivity measurement an accurate and high resolution pressure reading is produced over a wide measurement range.

The coaxial CCL uses a pair of rare earth magnets and a single coil to detect changes in the amount of magnetic material around the tool.

APPLICATIONS:

- Depth correlation in tubing and casing
- Liquid/Gas interface determination
- Pressure data for Productivity Index and Nodal Analysis
- Drawdown and Build-Up Pressure transient analysis
- Downhole pressure gradient measurements

BENEFITS

- Multiple sensor measurements combined in single short toolstring
- Close sensor proximity provides definitive localised measurements
- High accuracy and high resolution pressure measurement over wide measurement range
- Deployable on Slickline, Electric line, Coil Tubing and Tractor
- Suitable for all well deviations, including horizontal



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Specifications

Temperature rating	350°F (177°C)
Pressure rating	15,000 psi (103.4 MPa)
Tool diameter	1 11/16 in (43 mm)
Tool length	19.01 in (483 mm)
Tool weight	8.8 lb (4.0 kg)
Pressure accuracy	± 0.02% FS
Pressure resolution	< 0.008 psi
Pressure response	< 1 sec for 99.5%
Pressure ageing	< 3 psi/year
Temperature accuracy	± 0.27°F (0.15°C)
Temperature resolution	<0.009°F (0.005°C)
Materials	Corrosion resistant throughout