

Quartz Pressure Tool

Provides wellbore pressure and gauge temperature

Applications

Fluid identification, contacts, and densities

Features and Benefits

- Combinable with all high-speed digital (HD) telemetry tools for comprehensive evaluation
- Accurate across broad pressure range
- Compact, versatile, and robust

Tool Description

The Weatherford quartz pressure tool uses a precision digital quartz pressure transducer to provide wellbore pressure and gauge temperature. This transducer provides continuous measurement of well pressure during dynamic passes, or dynamic pressure build-ups or drawdowns.



Quartz Pressure Tool

Specifications

Ratings and Dimensions

Maximum temperature	350°F (177°C)
Maximum pressure	15,000 psi (103.4 MPa)
Outside diameter	1.69 in. (43 mm)
Length	21.25 in. (540 mm)
Weight	9.5 lb (4.3 kg)
Measure points	4.2 in (106.0 mm)
Materials	Corrosion-resistant materials used throughout

Pressure Measurements

Maximum error	0.02% full scale
Response time	< 1 second
Range	0 - 15,000 psi
Resolution	0.008 psi (55.16 mPa)
Drift	< 3 psi (< 20.68 kPa) per year

Temperature Measurements

Accuracy	0.27°F (0.15°C)
Resolution	0.009°F (< 0.005°C)
Drift	< 0.1 °C/year at 177°C
Reference clock drift	<1 ppm/year at 177°C

Hardware Characteristics

Combinability	All HD tools (RADii®, iQ™, PL, RAS™)
Acquisition mode	Real time with telemetry control unit (TCU) Memory with memory logging tool (MLT)

Electrical

Current	4.5 mA at 50 V DC 11 mA at 19 V DC
---------	---------------------------------------

