

Quartz Pressure Tool

Provides wellbore pressure and gauge temperature

Applications

- Fluid identification, contacts, and densities

Features and Benefits

- Combinable with all 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

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|---------------------|---|
| 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

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|---------------|--------------------------------|
| Maximum error | 0.02% full scale |
| Response time | < 1 second |
| Range | 0 - 15,000 psi |
| Resolution | 0.006 psi (41.4 Pa) |
| Drift | < 3 psi (< 20.68 kPa) per year |

Temperature Measurements

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|-----------------------|------------------------|
| 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

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

Electrical

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