Technical Specification Sheet

IntelleX™ E-Coil Tool - $1^{11}/_{16}$ in.

The IntelleX™ E-Coil tool is a Casing Collar Locator, Gamma Ray, internal/external piezoresistive pressure and temperature tool ideal for real-time logging during coil tubing operations. The tool can also be run for e-line or memory logging operations. The E-coil tool includes a battery back-up feature to capture and record real-time data in memory to prevent data loss while logging. For example, the tool can remain downhole to continue operations in memory mode if e-line power is lost to the tool string. The tool also offers a removable gamma ray tool module to prevent damage if the tool is run with ballistics.

Ratings & Dimensions

Max temperature	347°F (175°C)
Max pressure	15,000 psi (103.4 mPa)
Outer diameter	1.69 in (43.0 mm)
Length	6.23 ft. (1.90 m) (M.U.L. excluding fishingneck)
Weight	28.9 lb (13.1 Kg)

Hardware Characteristics

Transducer type	Piezoresistive
Housing	Corrosion resistant throughout | Inconel
Combinability	None / Standalone
Acquisition mode	Memory
Connection	GO pin/box

Electrical Specifications

Battery	5 x 'AA' cell lithium battery
Voltage (DC)	19.5 VDC, 1.6 Ahr
Memory rate	105 hrs (CCL @ 8 samples/sec & GR-P/T @ 1 sample/sec 72 hrs (CCL @ 16 samples/sec & P/T @ 1 sample/sec
Memory capacity	8MB
Current	5 mA standby
Consumption	60mA (1 sample/sec), (26 hrs operation from a single battery after e-line communication fails or is removed)

Temperature Measurements

Range	32 – 345.0 °F (0 – 175.0 °C)
Accuracy	< ±0.9°F (< ±0.5°C)
Resolution	< 0.02°F @ 1 sps (< 0.01°C @ 1 sps)

Pressure Measurements

Range	0 – 15,000 psi
Accuracy	< ±0.05% FS
Resolution	0.01 psi @ 10,000 psi & 1 sps

Gamma Ray Measurements

Max counting rate	3,000 cps, 4,000 API
API calibration	1 CPS/API unit

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