Technical Specification Sheet

Combined Capacitance, Flow Electronics & Temperature Tool - $1^{11}/_{16}$ in.

The Capacitance Flow Electronics & Temperature Tool (CFT004) offers a reduced length multiple sensor solution. All standard Fixed Cage Spinners and our Full Bore Spinner are compatible with the CFT.

The capacitance sensor provides an indication of the fluid type surrounding the sensor by measuring the dielectric constant of the fluid between the sensor and tool body. Used in combination with other sensors it provides qualitative fluid identification data. A dedicated hall effect array provides 10 pulses per revolution flowmeter output and a fast response PRT measures well bore temperature.

Ratings & Dimensions

Max temperature	350°F (177°C)
Max pressure	15,000 psi (103.4 mPa)
Outer diameter	1.69 in (43.0 mm)
Length	29.3 in (744 mm)
Weight	12.3 lb (5.6 kg)
Materials	Corrosion resistant materials used throughout

Capacitance Sensor

Range	0 to 45% Hold Up (Water)
Resolution	1%
Measure points	10.8 in (274.0 mm)

Temperature Sensor

Range	–40 to 350°F (–40 to 177°C)
Accuracy	± 0.9°F (± 0.5°C)
Resolution	± 0.006°F (± 0.003°C)
Linearity	0.5°F (0.15°C)
Response time	~ 0.5 seconds
Measure points	0.7 in (17.0 mm)

Hardware Characteristics

Combinability	All HD tools (RADii, iQ, PL, RAS, etc)	
Acquisition Mode	Real-time (with TCU)	Memory (with MLT)

Electrical Specification

Current	7 mA @ 50V	17 mA @ 19V

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