

Fluid Capacitance Tool - 1¹¹/₁₆ in.



The Fluid Capacitance Tool (FCT004) 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.

The oscillator electronics are on sensor pcb and not in sensor section, reducing complexity and simplifying maintenance.

Can provide useful qualitative analysis in High GOR wells.

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	27.4 in (697.0 mm)
Weight	11.0 lb (5.0 kg)

Capacitance Measurements

Measure Point	9.0 in (229.0 mm)
Effective range*	0 to 40% Hold Up (Water)
Accuracy*	1%
Resolution*	0.1%

Hardware Characteristics

Materials	Corrosion resistant materials used throughout	
Combinability	All HD tools (RADii, iQ, PL, RAS, etc)	
Acquisition Mode	Real-time (with TCU)	Memory (with MLT)

Electrical Specifications

Voltage	50V DC	19V DC
Current	5 mA	11 mA

*Some users prefer to present raw counts only.