Technical Specification Sheet

Array Fluid Capacitance Tool - $1^{11}/_{16}$ in.

The Array Fluid Capacitance Tool (AFC001) is a 12 sensor fluid ID device. The sensors are deployed across the wellbore and opening diameter can be restricted to avoid contamination from debris on the casing wall and to help avoid damage in open hole. Adjustment is continual and any diameter can be set.

As water, oil and gas have different dielectric constants, it is possible to identify the fluid around each senor and from that define the cross sectional area occupied by each phase.

Ratings & Dimensions

Max temperature	350°F (177°C)
Max pressure	15,000 psi (103.4 mPa)
Outer diameter	1.69 in (43.0 mm)
Diameter (sensors)	1.77 in (45.0 mm)
Length	46.2 in (1175.0 mm)
Weight	18.0 lb (8.2 kg)
Materials	Corrosion resistant materials used throughout

Sensor Specifications

Range	Adjustable up to 7”
Measure points	26.5 in (674.0 mm)

Hardware Characteristics

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

Electrical Specification

Current	10mA @ 50V	25mA @ 19V

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