Technical Specification Sheet

Fluid Density Tool - 1 3/8 in.

The Fluid Density Tool (FDT101) utilizes a double encapsulated low energy AM241 source and scintillation detector assembly to measure fluid density in the measurement window of the tool.

This measurement is unaffected by well deviation or fluid velocity making it suitable for deployment in a very wide range of environments. The FDT is a short, robust and reliable tool, easily maintained and well suited to e-line SRO operations or Memory operations on Slickline, Coil Tubing or Tractor.

High voltage to the PMT is adjusted with temperature to maintain sensitivity over the whole temperature range.

The tool uses a dual channel receiver. The 2nd channel counts high energy gamma rays from scale or formation which correct the main channel.

Ratings & Dimensions

Max temperature	350°F (177°C)
Max pressure	10,000 psi (68.9 mPa)
Outer diameter	1.38 in (35.0 mm)
Length	29.9 in (760.0 mm)
Weight	8.0 lb (3.6 kg)
Measure point	5.1 in (131.0 mm)

Sensor Characteristics

Measurement range	0 to 1.25g/cc
Accuracy	±0.03g/cc
Resolution	0.01g/cc

Hardware Characteristics

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

Electrical Specification

Current	10mA @ 50V	24mA @ 19V

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