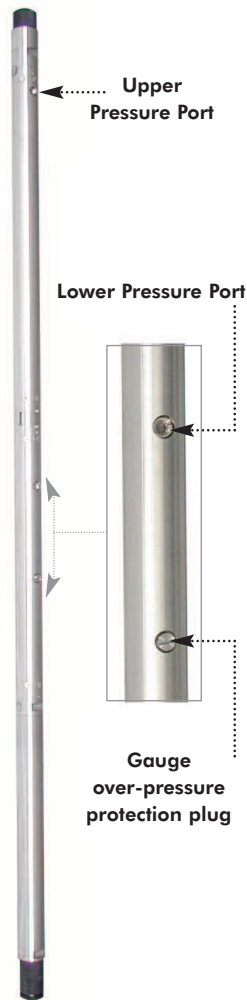


# Differential Pressure Fluid Density Tool (FDD)



The Differential Pressure Fluid Density Tool uses a differential pressure transducer to derive the density of wellbore fluids by measuring the hydrostatic pressure gradient of the fluids in the wellbore.

## Description

Wellbore hydrostatic pressure at points 2ft apart in the well is transmitted by silicone oil to a precision differential pressure transducer. The differential pressure at the transducer is the wellbore hydrostatic pressure between the ports less the hydrostatic pressure of the silicone oil.

After correction for well deviation, and changes in the properties of silicone oil with pressure and temperature, this differential pressure may be presented as a wellbore fluid density. Corrections for pressure and temperature are read from other transducers in the production logging toolstring, while correction for well deviation is made from the onboard accelerometer data.

## Features

- Differential pressure overload protection.
- Used for fluid identification and multiphase production profiling.
- Tool can be used in vertical and inclined wells.
- Tool provides fluid interface detection.
- Full borehole coverage.
- Provides an alternative to radioactive density tools.
- Fully combinable with all Ultrawire™ Production Logging Tools.

## Specification

<b>Temperature rating</b>	350°F (177°C)
<b>Pressure rating</b>	15,000psi (103.4MPa)
<b>Tool diameter</b>	1 11/16in (43mm)
<b>Tool length</b>	51.9in (1318mm)
<b>Tool weight</b>	22lb (10kg)
<b>Toolbus</b>	Ultrawire™
<b>Current consumption</b>	50mA (typ.)
<b>Measurement range</b>	0 to 1.5g/cc
<b>Accuracy/repeatability</b>	0.03g/cc
<b>Response Time</b>	<0.5 sec
<b>Materials</b>	Corrosion resistant throughout

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