

FLUID PHASE EVALUATION TOOL

Fluid Phase Evaluation Tool (FPET) provides accurate capacitance (water holdup) and resistivity measurements in vertical and slightly deviated wells. Available in memory and SRO modes.

Applications

- Accurate fluid phase measurement in production wells
- Water/oil-producing intervals identification
- Water breakthrough determination based on resistivity (salinity) measurements

Advantages

- 2 in 1 solution
- Compact design
- Cost-effective solution for service companies



Capacitance sensor	
Water cut	0-100%
Accuracy	±0.1%
Resistivity sensor	
Measurement error	Less than 1 ohm-m
General Specifications	
Maximum operating pressure	14,500 PSI (100 MPa)
Maximum operating temperature	150°C (302°F)
Tool OD	1.50/1.65 in (38/42 mm)
Tool length	2.0 ft (0.6 m)
Tool weight	6.6 lbs (3.0 kg)
Connections	15/16 SR
Operational time	Over 100 hrs
H ₂ S resistance	6% standard (25% optional)
Surface read-out / Memory	Both



A combination of capacitance and resistivity sensors allows the differentiation of wellbore fluid phase segregation as well as changes in water salinity to determine the production from different intervals/reservoirs.

