

The Reservoir Analysis Sonde (RAS) is a multi-detector pulsed-neutron (MDPN) tool design to evaluate conventional and unconventional reservoirs through casing.

Using 3-detector array measurements, the Reservoir Analysis Sonde is used to determine reservoir fluid saturations: Water saturation, Gas saturation and /or Oil saturation in new or mature wells.

Additional applications of this MDPN tool include identification of bypassed hydrocarbons, estimation of rock porosity, silicon activation for lithology indication or gravel pack evaluation, and identification of water flow inside/ outside casing.

Features

- High resolution Lanthanum Chloride detectors for Sigma and Carbon-Oxygen.
- High dynamic range sodium Iodide long space detector with optimized spacing for high sensitivity to gas.
- Advanced calibration mechanisms to assure accuracy.
- Combinable with production evaluation tools.

Benefits

- Broad range of applications in formation evaluation for new wells (Open-Hole log emulation, determination of fluid saturations, rock porosity and lithology).
- Reservoir monitoring and well diagnostics in hydrocarbon or injector wells.
- Evaluation/ monitoring of enhanced oil recovery systems (water, gas, steam, and CO2 floods).
- Accurately identify bypassed hydrocarbon undetected with previous sensor technology.



Specifications		
Temperature rating	160°C	320°F
Pressure rating	103.4 MPa	15,000 psi
Diameter	43 mm	1 11/16 in.
Length	3573 mm	140.7 in.
Weight	20 kg	44 lb
Measure point - Near	2134 mm	84 in.
Measure point - Far	2311 mm	91 in.
Measure point - Long	2565 mm	101 in.
Materials	Corrosion resistant throughout	

Specifications courtesy of Hunter Well Science Limited