



TECHNICAL DATA SHEET

RAS-002

Reservoir Analysis System

The Reservoir Analysis System, is a multi-detector pulsed-neutron system for measuring reservoir saturation using Sigma and Carbon-Oxygen techniques. The sonde features three gamma detectors, the near and the far are high resolution Lanthanum Chloride for Sigma and C/O, the long spacing is a Sodium Iodide detector with a spacing that is sensitive to gas and porosity.

The tool can simultaneously measure Sigma and C/O using a mixed firing pattern for the neutron generator. Reservoir Geoscience support is available to map the measurements into reservoir properties such as oil saturation, porosity and rock type.

FEATURES:

- 3 detector array that includes time and energy spectra
- Combination Modes to run Sigma and C/O logs simultaneously
- High-resolution Lanthanum Chloride detectors
- Advanced calibration mechanisms to assure accuracy
- SRO or Memory Operation
- Easily and readily combinable with READ's full service portfolio of Well Integrity and Production Logging Measurements.

MEASUREMENTS:

- Sigma
- C/O
- Dual mode (Sigma & C/O)
- Oxygen Activation
- Inelastic Gas

BENEFITS

- Robust detector material for increased reliability
- Exploit bypassed reserves
- Monitor and evaluate reservoir fluid movements
- Identify undesired water flow behind casing
- Slim-hole tool enabling access through well restrictions



Specifications

Temperature rating	160°C	320°F
Pressure rating	103.4 MPa	15,000 psi
Tool diameter	43mm	1 11/16"
Tool length	3573mm	140.7"
Tool weight	20kg	44lb
Measure point - Near	2134mm	84"
Measure point - Far	2311mm	91"
Measure point - Long	2565mm	101"
Materials	Corrosion resistant throughout	