

# Ultrawire RPM

## Comprehensive formation evaluation and reservoir monitoring

### Applications

- Formation evaluation
- Reservoir monitoring and management
- Borehole diagnostics
- Workover applications
- Production profiling
- Location of bypassed oil
- Quantification and identification of water production

### Benefits

- Multiple modes depending on acquisition or answer product required
- Deployable on any type of electric line (e-line) or coiled tubing

The Sondex **Ultrawire™ reservoir performance monitor (Ultrawire RPM™)** tool is an advanced, slimhole, multifunction, pulsed neutron reservoir monitoring instrument. Its instrumentation combines multiple nuclear measurements in one system enabling Carbon/oxygen (C/O) and pulsed neutron capture (PNC) measurements to provide for water saturation while oxygen activation measurements allow detection of water flow and channels.

The Ultrawire RPM uses three high resolution gamma ray detectors above an efficient and reliable neutron generator. State of the art detector electronics are employed to measure the arrival time and energy of detected gamma rays. The generator is pulsed at distinct frequencies and the data acquisition system operates in various timing modes to obtain different logging measurements.

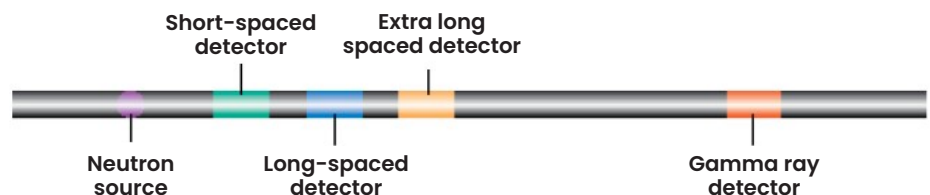
Flexibility and operating efficiency make the Ultrawire RPM tool a complete multi-mode, multi-sensory, solution-based system. All operating modes are selectable by surface commands.

The Ultrawire RPM tool was be run in combination with any Sondex Ultrawire production logging or well integrity tool

to provide a complete picture of a well's production and reserves in a single trip and leverages Baker Hughes experience of operating, characterizing and interpreting pulsed neutron data.

The Ultrawire RPM tool addresses a broad scope of reservoir evaluation and management applications, including reservoir saturation and produced fluids monitoring, formation evaluation, production profiling, workover, and well abandonment evaluation, borehole diagnostics, location of bypassed oil, and identification of water production.

Contact your On-Demand Solutions representative to learn how the Sondex Ultrawire RPM tool can also be supported by Baker Hughes' Geoscience team to plan, execute and interpret complex operations. This includes pre-job Monte Carlo N-Particle (MCNP) modeling to provide accurate quantitative fluid saturation and can also include Baker Hughes' industry leading experience in delivering **GasView™** (gas saturation), **OilView™** (two-phase fluid saturation service), **FluidView™** (three-phase saturation) and **OmniView™** (salinity independent three-phase saturation) **services**.



## Specifications

Temperature rating (standard)	350°F (177°C)
Pressure rating (standard)	20,000 psi (138 Mpa)
Tool OD	1.69 in. (42.9 mm)
Tool weight	75 lb (34 kg)
Minimum restriction	1.80 in. (45.7 mm)
Maximum hole size	12.25 in. (311.2 mm)
Tool compressive strength	570 lb (259 kg)
Tool tensile strength	22,000 lb (9,979 kg)
Maximum bend rate	30°/100 ft (30°/30.5 m)