

Gas Array Tool (GAT)

Determine the gas hold up across the entire wellbore

Applications

- Gas holdup in vertical to horizontal wells
- Resolves gas bubble size to 1mm diameter
- For use in 3 phase (gas/oil/water) horizontal and highly deviated wells

Features and Benefits

- Combinable with other Sondex **Ultrawire™ production logging tools**
- Combinable with other tools of the Multiple Array Product Suite via Rotational Alignment Subs (RAS)
- 3D visualization integrated into MAPview software
- Equipped with 6 optical sensors for effective circumferential coverage and high quality hold up data
- Memory and surface read out operations
- CE marked

The Sondex **Gas Array (GAT201)**

Tool is the next generation production logging technology. Designed to differentiate gas from liquid (oil or water), it features an array of optical sensors for highly accurate imaging of complex flow regimes.

The Gas Array Tool (GAT) is the latest addition to the Sondex Multiple Array Production Suite (MAPS) well logging technology. It provides enhanced measurement capability distinguishing gas from liquid in a wide variety of operating conditions including numerous, small high-speed gas bubbles. The integration of the GAT into the MAPS suite offers customers a unique combination of reliability, accuracy, and multiphase flow

capability for deviated wells not available in the market until now. GAT incorporates new optical sensor technology from GE's Research Centre adapted to downhole conditions.

Combined with data from the Spinner Array Tool (SAT), Capacitance Array Tool (CAT) and Resistance Array Tool (RAT), the tool allows quantitative estimations of volumetric flow rate for each phase with a much higher degree of certainty, and thus provides vital and more precise information for reservoir management.

Specifications

	GAT201
Temperature rating	300°F (149°C)
Pressure rating	15,000 psi (103.4 MPa)
Tool diameter	1 11/16 in. (43 mm)
Tool length	83.0 in. (2.11 m)
Tool weight	30.0 lb (13.6 kg)
Toolbus	Ultrawire production logging tool
Maximum opening	7 inch casing
Number of sensors	6
Sensor measure point	12.6 in. (320 mm)
Materials	Corrosion resistant throughout

