

Optical Array Gas Holdup Tool

Measures gas/fluid refractive index for accurate gas quantification

Applications

- Quantification of gas holdup
- Bubble count in flowing well

Features and Benefits

- Compatible with any high-speed digital (HD) platform with fast telemetry
- Provides gas holdup and bubble count from each sensor
- Combinable with ArrayPro for 3-phase flow evaluation
- Available in SRO and memory
- Can restrict opening diameter to avoid contamination from debris on the casing wall

Tool Description

The Weatherford optical array gas holdup tool consists of six optical sensors. Both gas holdup and bubble count are provided by each sensor.

The opening diameter can be restricted to avoid contamination from debris on the casing wall and to help avoid damage in the open hole.

The tool can be combined with the RAS[®], PL and ArrayPro (capacitance, resistance, fluid velocity) and is supported in SRO and memory modes.



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Specifications

Ratings and Dimensions

Maximum temperature	302°F (150°C)
Maximum pressure	15,000 psi (103.4 MPa)
Outside diameter	1.69 in. (43.0 mm)
Makeup length	45.5 in. (1,155.7 mm)
Weight	15.43 lb (7.0 kg)
Materials	Corrosion-resistant materials used throughout

Sensor Specification

Range	Adjustable up to 7 in.
Measure points	10 in. (406.4 mm)

Hardware Characteristics

Combinability	All HD tools (RADii [®] , iQ [™] , PL, RAS [®])
Acquisition mode	Real-time (with TCU) Memory (with MLT)

Electrical

Current	12 mA at 50 V 26 mA at 19 V
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