## **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<sup>®</sup>, PL and ArrayPro (capacitance, resistance, fluid velocity) and is supported in SRO and memory modes.





# **Optical Array Gas Holdup Tool**

#### **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 <sup>®</sup> , iQ <sup>™</sup> , PL, RAS <sup>®</sup> ) |
|------------------|---|
| Acquisition mode | Real-time (with TCU)<br>Memory (with MLT)                                   |

#### Electrical

| Current | 12 mA at 50 V |
|---------|---------------|
|         | 26 mA at 19 V |



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