

Array Resistivity Water-hold-up Sub (ARWS)

OVERVIEW

The Array Resistivity Water-hold-up Sub (ARWS) is a fluid identification tool based on the principle that the saltwater is conductive while the hydrocarbon is non-conductive. The tool features 5 arms and on both sides of each arm are mounted with a long probe and a short probe. The long and short probes are evenly-spaced in the borehole circumference, which can measure water holdup and fluid phase distribution. The tool arms are freely adjustable for different casing size.

The ART01 may be used in a vertical or horizontal well.

BENEFITS

- ✔ Good adaptation to well conditions by combining spring bow and rigid arms
- ✔ Lamination by two probes staggered on both sides of each arm
- ✔ Staggered probes arrangement when combining with ACT01
- ✔ Continuously adjustable arms for measurement
- ✔ Realtime/Memory logging
- ✔ Compatible with other WellRay tools for comprehensive logging



SPECIFICATIONS

Parameters	Description
Max Working Temperature	175°C
Max Working Pressure	103MPa (15,000psi)
OD	43mm (sectional 45mm)
Probes Quantity	10 (staggered arrangement)
Communication	WRTbus
Operating Current	<100mA
Operating Voltage	+18VDC
Water Holdup Measuring Accuracy	±5%
Inclination Measuring Accuracy	5° (≤150°C)
Orientation Measuring Accuracy	5° (≤150°C)
Casing Size	4.5-8.625 "