

Array Hold-up Tool Sub (AHTS)

OVERVIEW

The Array Hold-up Tool Sub (AHTS) has been developed for oil/gas/water identification in a highly deviated and horizontal well. The tool features 5 arms, and on each of them, a micro resistivity probe and a micro-optic probe are deployed. The micro-optic probe is used for gas bubbles measurement, and the micro resistivity is for resistivity measurement in fluids to know the water and gas holdup in fluids.

The 10 probes of the Array Holdup Tool may be custom mounted with all micro-optic probes or micro resistivity probes as per customer requirements.

BENEFITS

- ❑ Good adaptation to well conditions by combining spring bow and rigid arms
- ❑ Mounting micro-optic and resistivity probes for simultaneous water and gas holdup measurement
- ❑ Continuously adjustable arms for measurement
- ❑ SRO/Memory logging
- ❑ Compatible with other WellRay tools for comprehensive logging



SPECIFICATIONS

Parameters	Description
Max Working Temperature	150°C
Max Working Pressure	68MPa
OD	43mm (sectional 45mm)
Probes Quantity	10 (staggered arrangement)
Communication	WRTbus
Water Holdup Measuring Accuracy	±5%
Inclination Measuring Accuracy	5° ($\leq 150^{\circ}\text{C}$)
Orientation Measuring Accuracy	5° ($\leq 150^{\circ}\text{C}$)
Casing Size	4.5-8.625 "
Minimal Gas Bubble Size	1mm