

# Array Capacitance Water-hold-up Sub (ACWS)

## OVERVIEW

The Array Capacitance Water-hold-up Sub (ACWS) is used to measure fluid distribution volumes in borehole based on the principle that oil/gas/water in well fluids present different dielectric constants. The tool features 5 arms and on both sides of each arm are mounted with a long and a short capacitance probe. The long and short probes are evenly spaced in the borehole circumference to measure water holdup in fluids. The tool arms are freely adjustable for different casing size.

The ACT01 is mainly used in a highly deviated well and 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 ARTS
- 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
Water Holdup Measuring Accuracy	±5%
Inclination Measuring Accuracy	5°(≤150°C)
Orientation Measuring Accuracy	5°(≤150°C)
Casing Size	4.5-8.625 "