

MICRO INSTRUMENTS FOR HARSH ENVIRONMENTS

FLOW ARRAY SENSING TOOL V4

MULTIPHASE FLOWS
DEVIATED AND HORIZONTAL WELLS
VERY LOW FLOWS
VERY LOW HOLDUPS
ULTRA COMPACT
RUGGED MECHANICS

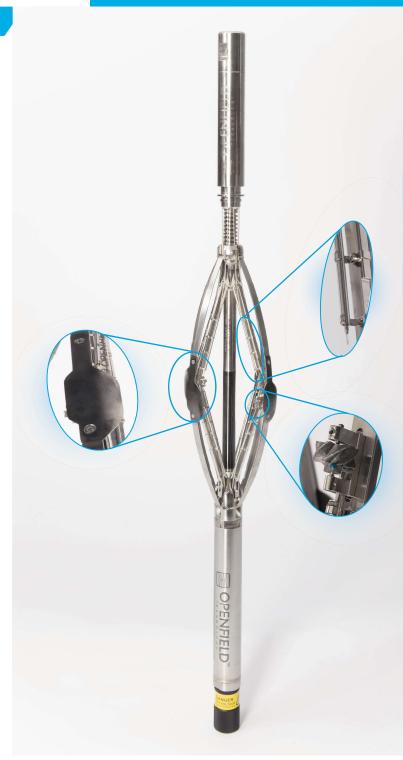
FEATURES

TOOL

OD	1-11/16 in.
Length	40.15 in. (102 cm)
Max casing ID	7 in.
Number of arms	4
Modulable probes	16
Power supply	D-Battery 150 hours of continuous recording
Memory	384 MB
Mechanical Connexion	Top: Inv. Go-head Box Bottom: Inv. Go-head Pin / Optional: 15/16'' Sucker Rod
Acquisition	Memory or real time through monocable
Interface	Plug & play USB to Computer

MEASUREMENTS

Gas Holdup	Optical Probe
Water Holdup	Electrical Probe Capacitance Probe
Flowrate	Magnetic Probe with mini-spinner Ultrasonic Doppler Probe Continuous Spinner (external module)
Pressure	MEMS Pressure Sensor Probe Accuracy 1.5 Psi Resolution 0.015 Psi
Temperature	Platinium RTD Probe Accuracy 0.15°C Resolution 0.015°C
Inclination	0-90° ±1°
Relative bearing	0-360° ±3°
CCL	Differential magnetometer
Natural radioactivity	Gamma Ray Detector (external module)

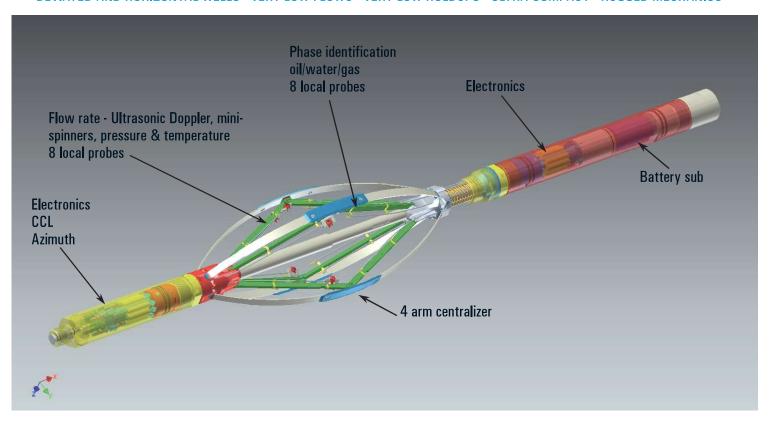


ENVIRONMENTAL

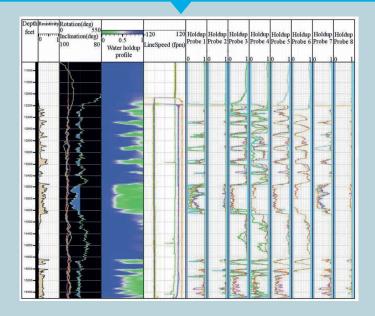
Pressure rating	15 kPsi (1000 bar)
Temperature rating	150°C (302°F)
Corrosion	NACE compliant materials: Stainless steel 316L, Inconel, Nickel, Sapphire
Shocks	250 G, 2 ms

RUGGED MULTIPHASE PRODUCTION LOGGING TOOL

DEVIATED AND HORIZONTAL WELLS - VERY LOW FLOWS - VERY LOW HOLDUPS - ULTRA COMPACT - RUGGED MECHANICS

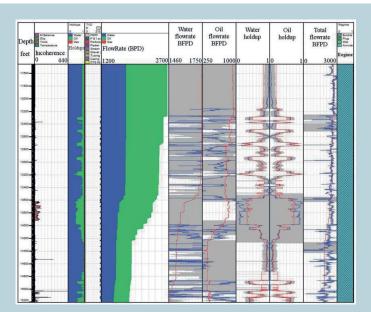


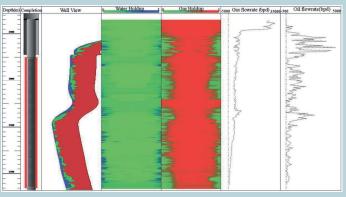
INTERPRETATION



FAST DATA COMPATIBLE WITH MAJOR INTERPRETATION SOFTWARE:

- KAPPA EMERAUDE
- ISP PLATO
- TECHLOG





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