

MICRO INSTRUMENTS FOR HARSH ENVIRONMENTS

FLOW ARRAY SENSING TOOL

MULTIPHASE FLOWS
DEVIATED AND HORIZONTAL WELLS
VERY LOW FLOWS - VERY LOW HOLDUPS
ULTRA COMPACT

FEATURES

TOOL

OD	1-11/16 in.
Length	34 in. (86 cm)
Max casing OD	7 in.
Number of arms	4
Fluid identification	8 probes (2 per arm)
Power supply	D-Battery 150 hours of continuous recording
Memory	192 MB
Electrical connexion	Kemlon monopin K25BMA 0.062"
Mechanical Connexion	Top: 15/16" PIN Bottom: 15/16" BOX
Acquisition	Memory or real time through monocable
Interface	Plug & play USB to Computer

MEASUREMENTS

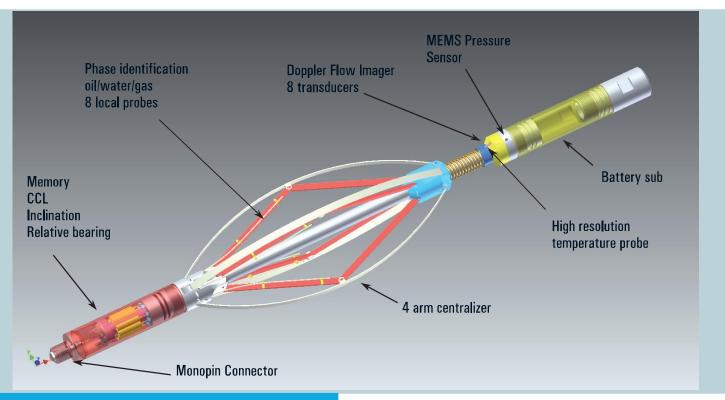
Gas Holdup	Optical probe
Water Holdup	Electrical probe
Flowrate	Magnetic Probe with Micro-Spinner Ultrasonic Doppler Array
Pressure	MEMS Pressure Sensor Accuracy 1 PSI Resolution 0.01 PSI
Temperature	Platinium RTD probe Accuracy 0.1°C Resolution 0.01°C
Inclination	0-90° ±1
Relative bearing	0-360° ±3°
CCL	Differential magnetometer

ENVIRONMENTAL

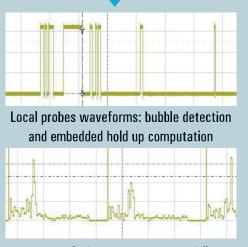
Pressure rating	15 kPSI
Temperature rating	150°C (302°F)
Corrosion	NACE compliant materials Stainless steel 316L, Inconel, Nickel, Sapphire
Shocks	250 G, 2 ms

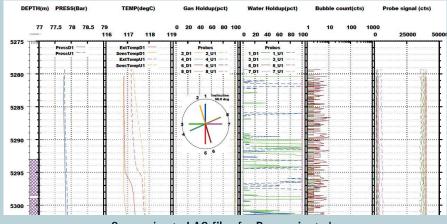


F.A.S.T. FLOW ARRAY SENSING TOOL



ANSWER PRODUCT





Doppler spectra: velocity measurement and flow pattern

Conversion to LAS files for Reservoir study

DUAL TOOL CONFIGURATION



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6 feet long
16 probes
2 ultrasonic arrays - 16 transducers
One single D-battery for both tools
One single electronic master and memory board
Ultra low flow measurements from cross correlation
signal between tools



Well section image



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