ARRAY ACOUSTIC
LEAK/FLOW ANALYZER TOOL

Array Noise Tool
is a next generation wireline leak detection and fluid movement evaluation instrument. The continuous recording tool utilizes a segmented array of wide-band acoustic sensors to produce an innovative data set of differential measurements. This allows excellent rejection of unwanted “road noise” produced by tool movement in the wellbore. The sensor array allows inventive propagation-direction processing to further extract weak fluid movement sounds from behind multiple pipes. Cutting edge machine learning algorithms facilitate more precise location of downhole sound sources and paths.

By paring differential sensors with array processing, the tool can acquire accurate measurements while ascending or descending in the wellbore, improving acquisition efficiency in any sound source detection logging application.



Applications & Features

- Leak detection - multi barrier
- Diagnose Sustained Casing pressure
- Identification of flow zones behind pipe
- Identification of channeling behing pipe
- Excellent (>30dB) Noise rejection
- Azimuthal Sensitivity
- X & Y Differential + Wave propagation
- 3 Monopole + 6 differential sensor configuration

SPECIFICATIONS	
Temperature Rating*	177°C / 350°F
Pressure Rating	1,380bar / 20,000psi
Diameter	43mm / 1-11/16”
Weight	16kg / 37 lbs
Length	3070mm / 10.1’
Logging speed	15 FPM / 4.5mtr/min
Materials	Corrosion Resistant througout
Data Recording	Hybrid (Memory & Subset SRO)