

Noise Spectrum Logging Sub (NSLS)

OVERVIEW

The noise spectrum Logging Sub (NSLS) is designed to measure downhole noise in the frequency ranging from 200Hz to 25kHz. The downhole noise may be generated in different frequencies by fluids flowing both inside and outside the casing. By analyzing the frequency spectra of noise, the nature of fluids may be determined to locate leaks.

The noise spectrum tool applies to oil/gas/water wells. When combined with the temperature tool and flowmeter, the NST string features the significantly improved accuracy and success rate in locating leak and cement channeling.

APPLICATION

- ❑ Evaluation of flow
- ❑ Locating cement channeling behind the casing
- ❑ Locating the casing leaks
- ❑ Determination of the formation structure



SPECIFICATIONS

Parameters	Description
Wireline	Mono-conductor (WRTbus)
Max Working Temperature	175°C
Max Working Pressure	103MPa (15,000psi)
OD	1-11/16" (43mm)
Make-up Length	32.78" (832.5mm)
Shipping Length	36.52" (927.5mm)
Working Voltage	+18V±1V
Working Current	≈40mA
Weight	Approx. 5.9Kg (13.11 lb)
Measuring Mode	Continuous /Station
Transducer	Piezoelectric Ceramic
Transducer Frequency	200Hz-25KHz
Frequency Resolution	156Hz
Presentation	5 logs (random 200Hz—25KHz)
Threads	1 3/16 -12 UN-2A(B) GO (female/male)