

NH95-DR

A High Performance Hydrophone designed for seismic applications

- ✔ Built in switch : Normally Open or Normally Close
- ✔ Completely waterproof
- ✔ Very small size
- ✔ Depth restricted
- ✔ Rugged construction
- ✔ Long operating life

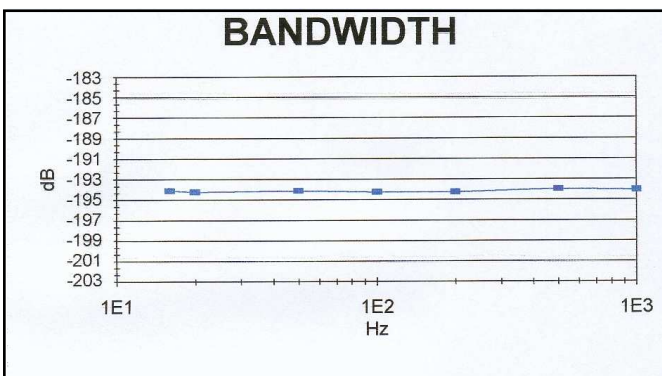


SUMMARY

The new generation of hydrophones is a common development of IFP and VINCI Technologies. It has been designed to improve existing hydrophones technology. This new hydrophone is based on our 20 years experience in design and fabrication of more than 1 million hydrophones.

DESCRIPTION

The new NH95-DR is a completely new design, which uses the latest technologies in order to reduce size and weight while increasing performance such as sensitivity versus depth or frequency response. *We can provide the hydrophones with Normally Open or Normally Close switch.* Each hydrophone carries a kerosene proof identification tag, used to follow quality. Tests of aging are also performed in order to fit with real conditions.

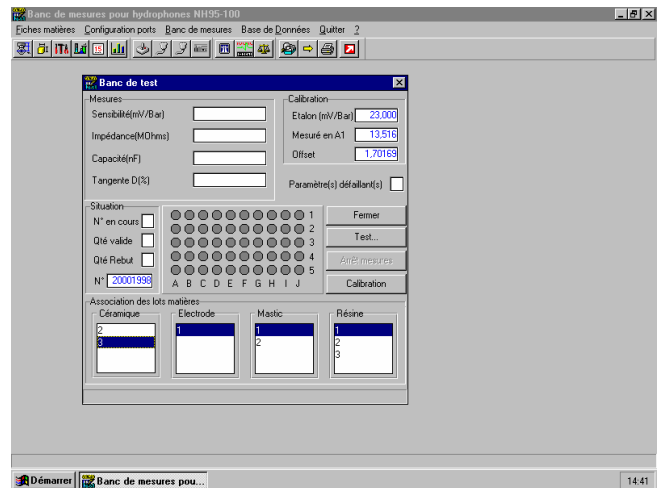


QUALITY CONTROL

The quality control is based on an automated production line, which follows the fabrication and technical specifications of each hydrophone.

Two types of qualification are required:

- Qualification test of components material.
- Qualification test of each hydrophone.



Control quality supervision system

SPECIFICATIONS

DIMENSIONS	0.67 inch (17mm) diam. (+/-1mm) 1.38inch (35mm) length (+/-1mm)
WEIGHT	0,74 ounce (21 gr.)
OPERATING TEMPERATURE	32°F to 122°F (0°C to 50°C)
STORAGE TEMPERATURE	-4°F to 176°F (-20°C to 80°C)
DESTRUCTION DEPTH	Greater than 500 feet (150m).
CAPACITY	16 nf ±5%.
IMPEDANCE	Greater than 500 MΩ, in water.
SENSITIVITY CHANGE VS DEPTH	0 to 25 m: 20 V/bar ± 18% (-194 db) Ref: 1V/ μ Pa Cut off at 30 m ± 5m
FREQUENCY RESPONSE	Flat from 5 Hz to 1 kHz.
LOWEST MECHANICAL RESONANCE	Above 4 kHz.
ACCELERATION	Output is less than 1 mV/g due to acceleration in the three major axes. Tests performed in air and at 20 Hz.
SENSITIVITY CHANGE VS TEMPERATURE	Less than 1 dB from the initial value over the range of 32°F to 122°F (0°C to 50°C).