

NH95-250

A High Performance Hydrophone designed for seismic applications

- ✔ Completely waterproof
- ✔ Very small size
- ✔ Lightweight
- ✔ 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 NH95-250 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.

Each hydrophone carries a kerosene proof identification tag, used to follow quality.

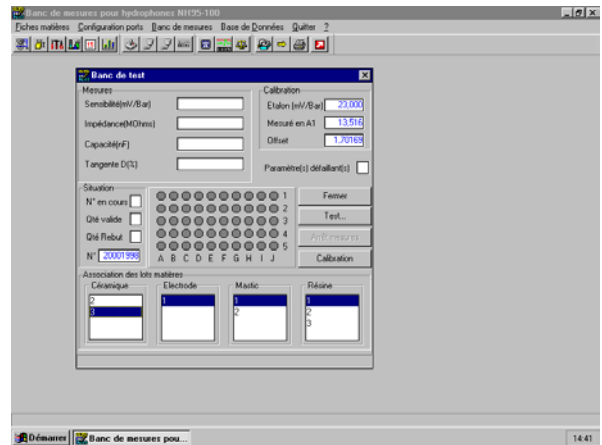
Tests of aging are also performed in order to fit with real conditions.

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) diameter (+/-0.5mm) 0.78 inch (20 mm) length (+/-0.5mm)
WEIGHT	0.48 ounce (13.6 gr.) (+/-1gr)
OPERATING TEMPERATURE	32°F to 122°F (0°C to 50°C)
STORAGE TEMPERATURE	-4°F to 150°F (-20°C to 65°C)
DESTRUCTION DEPTH	Greater than 1000 feet (300m).
CAPACITY	16 nF ±5%.
IMPEDANCE	Greater than 500 MΩ, in water.
SENSITIVITY	20V / bar + -18% (-194 db) Ref: 1V/ μ Pa
SENSITIVITY CHANGE VS DEPTH	Less than 1 dB from the initial value over the range of 0 to 164 feet (0 to 50m).
SENSITIVITY CHANGE VS TEMPERATURE	Less than 3 dB from the initial value over the range of 32°F to 122°F (0°C to 50°C).
FREQUENCY RESPONSE	Flat from 2 Hz to 1 kHz.
LOWEST MECHANICAL RESONANCE	Above 4 kHz.
ACCELERATION	Output is better than -60dB, re 1V/g, due to acceleration in the three major axes. Tests performed in air and at 20 Hz.

