

ATH-2000 Hydrophone Attenuator

In conjunction with the family of Onda hydrophones, the ATH-2000 increases the preamp large signal handling by 20 dB to accommodate high intensity applications such as HITU. Its in-line "cable-free" configuration allows fully submersible measurements while eliminating the risk of cable resonance and scope impedance mismatches. The ATH-2000 is compatible with all AH-20x0 and AG-20x0 series preamplifiers as well as HN and HGL hydrophones.

Features

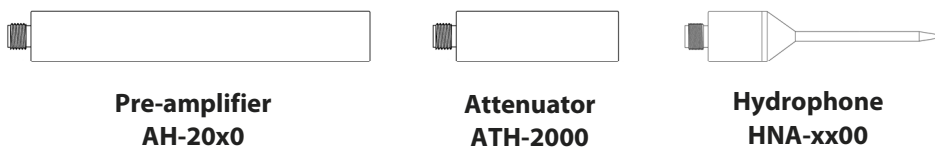
- Extends maximum signal handling by 20 dB
- Fully submersible
- No cable resonance or scope impedance mismatches
- Compatible with all AH-20x0 and AG-20x0 series preamplifiers; HN-series and HGL-series hydrophones
- ATH-2000 calibration traceable to a national standards laboratory (certificate included)

Technical Specifications

- Attenuation: 20 ± 0.5 dB at 2 MHz
- Bandwidth: DC to 100 MHz
- Capacitance*: 6 pF
- Input Impedance*: 10 M Ω
- Output Impedance*: 1 M Ω
- Max Input Signal Level: + 20 dB above preamplifier range
- Gain Uncertainty: ± 0.03 dB
- Capacitance Uncertainty: $\pm 2.5\%$

* Nominal values

Typical Straight-Line Configuration



NOTE: the ATH-2000 must be configured between the hydrophone and preamplifier



ATH-2000
Hydrophone Attenuator

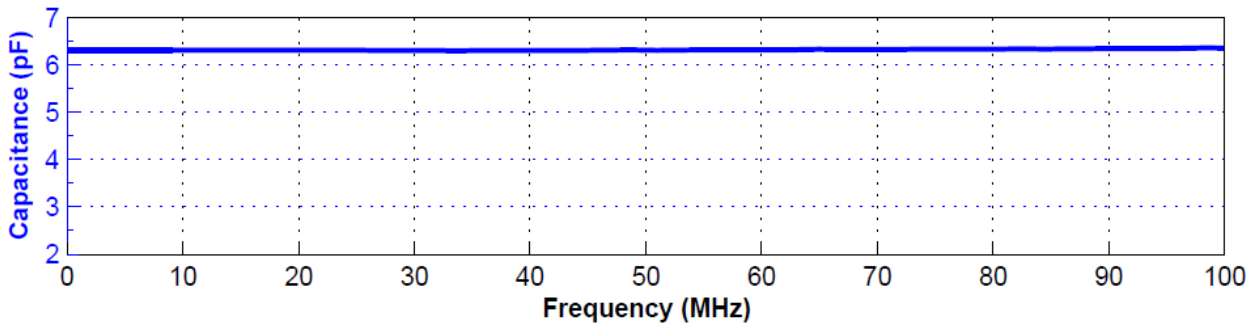
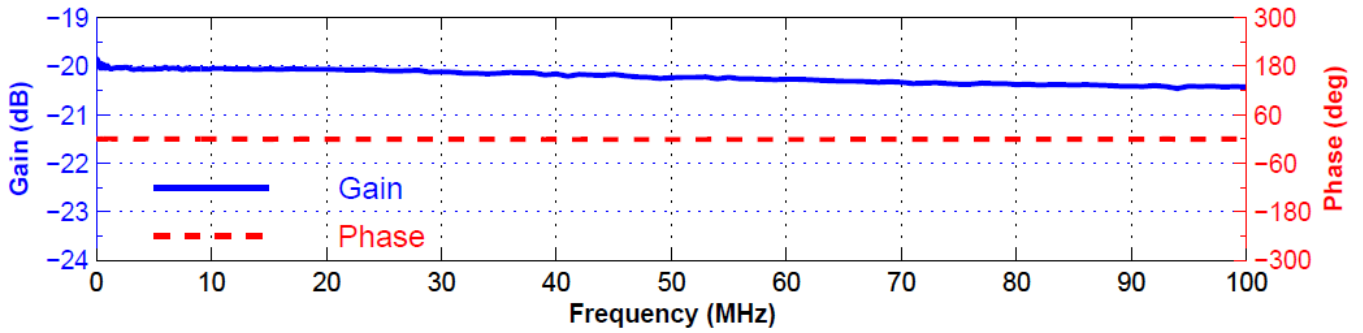


Right-Angle Configuration

From bottom-right to top-left:

- HNA-0400 Hydrophone
- Right-angle Adapter
- ATH-2000 Attenuator
- AH-20x0 Preamplifier
- SMA Output Cable

Typical Gain and Capacitance Plots



Mechanical Specifications

Material: Hermetically sealed stainless steel body.

