

AH-Series Preamplifier

The AH-2010 and AH-2020 preamplifiers offer a great combination of performance and features. Designed as an electronic and mechanical match for Onda hydrophones, the submersible AH-series preamplifiers have only one coaxial cable going to the oscilloscope. They have a superb frequency response, low noise and high stability, which make it ideal for ultrasonic acoustic intensity measurements.

The AH-2020 preamplifier matches the features of the AH-2010 but adds flexibility by offering a switchable gain setting (0 or 20 dB), selectable at the oscilloscope by either a toggle switch or a TTL signal.

Features

- Flat frequency response
- Low noise with high dynamic range
- Fully submersible
- Only one cable in the tank
- Waterproof mating to Onda hydrophones
- Compatible with any hydrophone

Technical Specifications

	AH-2010-100	AH-2020-100
Bandwidth	50 kHz - 100 MHz	
Voltage Gain	20 dB	Toggle or TTL switchable 0 or 20 dB
Input Impedance	1 M Ω in parallel with 6 pF	1 M Ω in parallel with 7 pF
Output Impedance	50 Ω	
Max Output into 50 Ω *	4 Vpp below 50 MHz 1 Vpp above 50 MHz	1.2 Vpp
Power Consumption (max)	2 W	2.5 W
Noise Level for 100 MHz BW	20 dB: 360 μ Vrms	20 dB: 400 μ Vrms 0 dB: 350 μ Vrms
Dynamic Range	72 dB	20 dB: 67 dB 0 dB: 68 dB
Calibration	Included	

* Based on criterion defined by IEC 62127-1

Specifications are subject to change without notice.



AH-20x0 Preamplifier

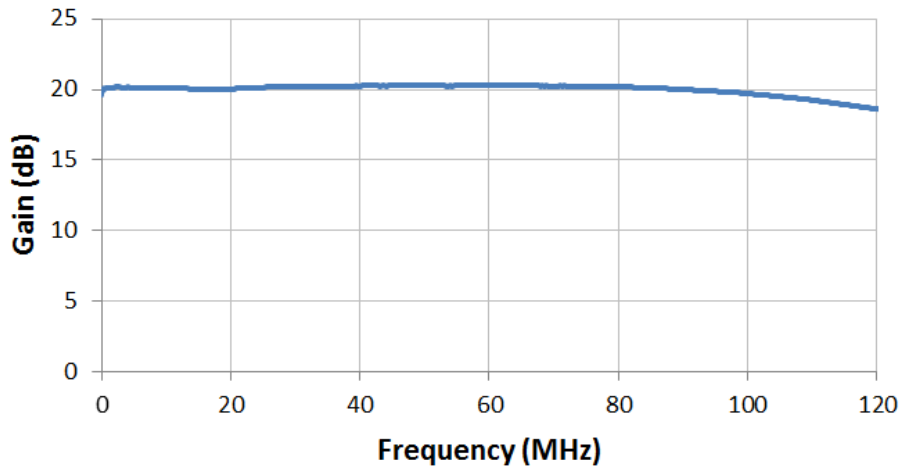


Preamplifier kit includes:

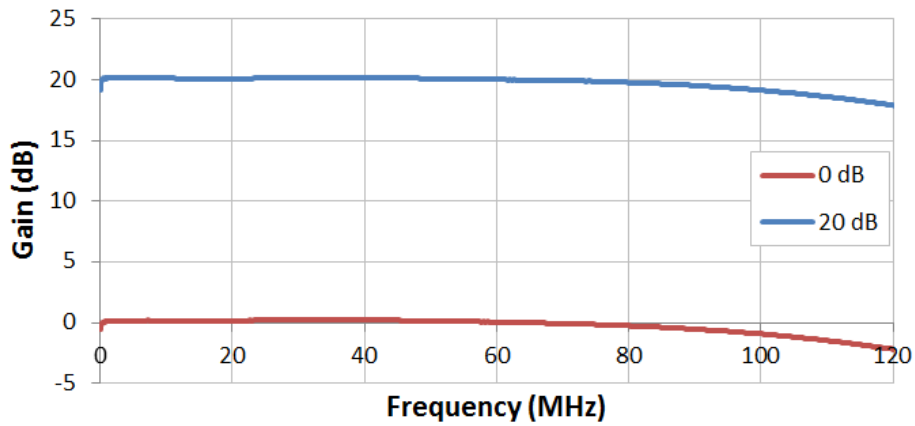
- Preamplifier
- Power supply
- DC block
- 1m coaxial cable (SMA-BNC)
- 1.5m coaxial cable (BNC-BNC)
- Right angle adapter
- Calibration certificate.

Typical Gain Plot

AH-2010-100



AH-2020-100



Mechanical Specifications

Weight: 36 g

Material: Hermetically sealed stainless steel body.

