

AG-2020 Preamplifier

The AG-2020 preamplifier offers a similar mix of performance and features as the AH-2020 preamplifier, except that the gain is designed to compensate for frequency variation observed in the HGL-0200 and HGL-0085 hydrophones between 20 and 40 MHz. The combined solution enables the flattest response with a sensitivity that varies less than ± 3 dB from 0.25 to 40 MHz, which is desirable for accurate measurement of typical pulsed diagnostic ultrasound systems. The AG-2020 preamplifier has two gain settings, selectable by either a switch or a TTL signal.

Features

- Designed to electronically match the HGL-0200 and HGL-0085
- Flat frequency response when combined with the HGL
- Dual Gain for >70 dB dynamic range
- Fully submersible
- Only one cable in the tank
- Waterproof mating to Onda hydrophones
- Overload protection

Technical Specifications

- Voltage Gain: Hand or TTL switchable 0 or 20 dB
- Bandwidth: 50 kHz - 60 MHz
- Input Impedance: $1\text{ M}\Omega$ in parallel with 8 pF
- Output Impedance: $50\ \Omega$
- Max Output into $50\ \Omega$: 1.2 Vpp
- Power Consumption (max): 2.5 W

A Precision Gain and Input Capacitance calibration certificate is provided with each device.

Specifications are subject to change without notice.



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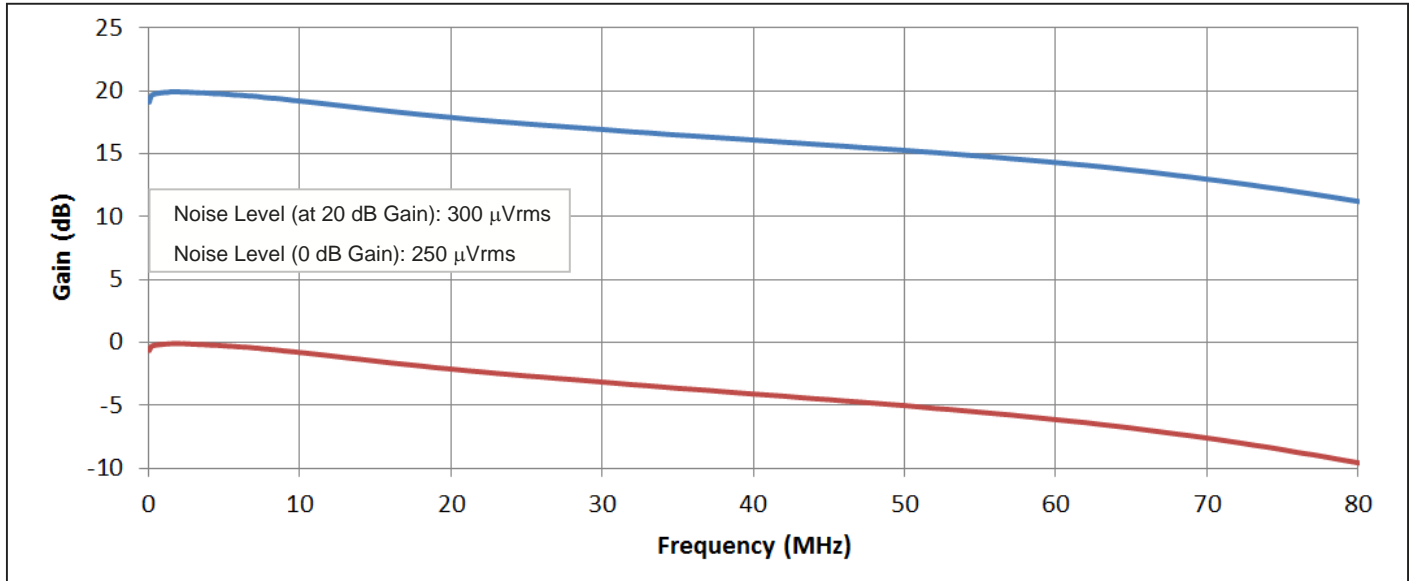


AG-2020 preamplifier with HGL-0200 hydrophone



Amplifier is supplied in a kit with Universal Power Supply, DC Block, 1m coaxial cable and calibration certificate.

Typical Gain Plots



Mechanical Specifications

Weight: 36 g
 Material: Hermetically sealed stainless steel body.

