

HGL Hydrophones

The HGL Series hydrophones were designed to meet or exceed recommendations of section 3.3.2 of the AIUM Acoustic Output Measurement Standard (May 1998). They have an exceptionally flat sensitivity in a small and sturdy package. These hydrophones are excellent in-house standards for ultrasonic acoustic intensity measurements, and for general purpose field mapping.

Features

- High sensitivity
- Small effective aperture
- Broadband
- Solid construction
- Flawless integration with AH preamplifiers
- Flat (+/-3dB) 250 KHz to >> 20 MHz *

* Use of the AG-20X0 preamplifier is required to maintain +/- 3 dB range from 20 to 40 MHz for the HGL-0085 and HGL-0200. For measurements above 40 MHz, the AH-20X0 preamplifier is advised.

Technical Specifications

	HGL-0085	HGL-0200	HGL-0400	HGL-1000
Frequency range ($\pm 3\text{dB}$)	0.25 to 40 MHz		0.25 to 20 MHz	
Electrode aperture	85 μm	200 μm	400 μm	1000 μm
* EOC Nominal Sensitivity [nV/Pa]	8	45	160	510
Acceptance angle (-6dB at 5 MHz)	>150°	100°	30°	20°
Capacitance	30 pF			
Max. Operating Temperature	50 °C			

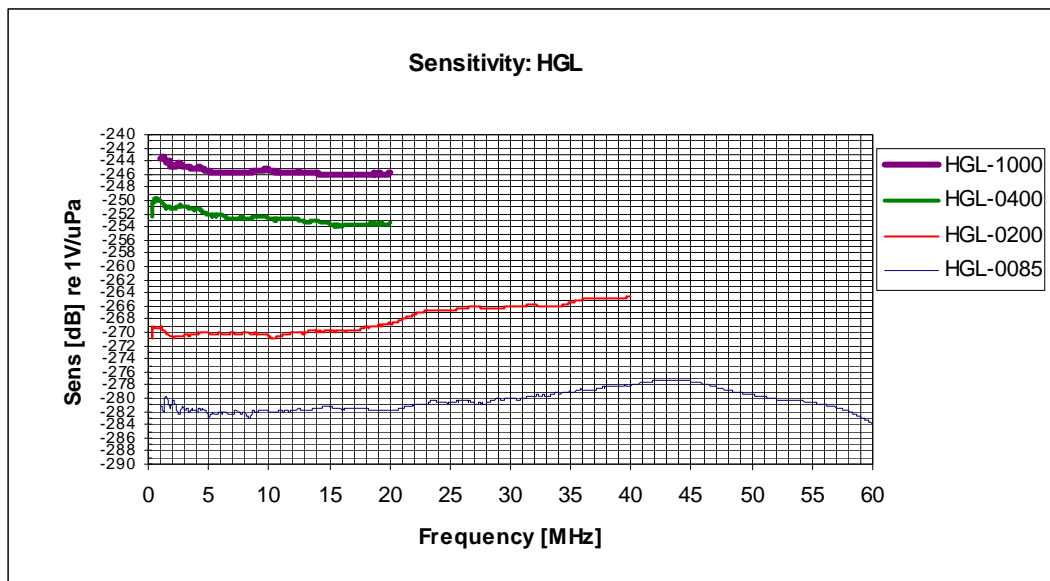
* EOC ("end of cable") is the open-circuit output sensitivity of the hydrophone. Calibration with an amplifier can be determined from the gain and input impedance of the amplifier.

Provided with traceable calibration 1-20 MHz at 50 KHz intervals. For other calibrations available visit our web site.

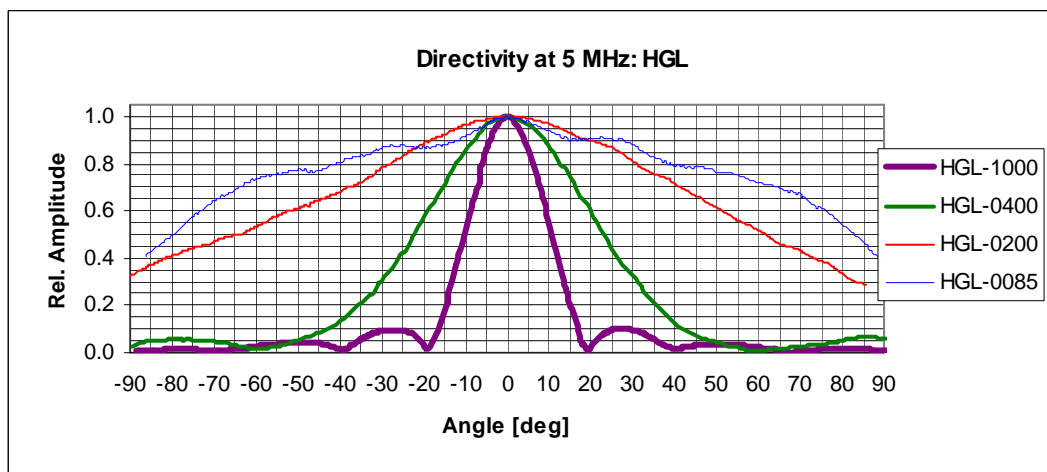


HGL Hydrophone

Typical Sensitivity Plot



Typical Directivity Plots



Mechanical Specifications

