Wilcoxon Research

The H505L hydrophone is designed as a small, versatile, self-amplified hydrophone for general purpose application to a wide variety of underwater acoustic measurements. Ruggedness, low cost and an ultra low-noise internal amplifier are prime features of this unit. The internal amplifier eliminates triboelectric cable noise, connector contamination problems and the requirement for an expensive in-line amplifier.

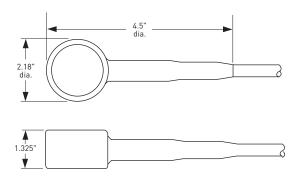
The hydrophone and cable entry are completely encapsulated in polyurethane. This alleviates water intrusion caused by cathodic action. The assembly uses pre-aged piezoelectric (PZT) sensing elements.

Applications for the H505L include underwater biological studies, ship noise studies, pump and machinery studies and monitoring of underwater ordnance.

Optional connector pinout			
Pin	Function	Wire color	
1	case	shield	
2	common	black	
3	B+, signal out	red	
4	N.C.	green	
5	N.C.	white	
6	N.C.	yellow	

R12 pinout R13 pinout O 1 6 O 1 6 O 2 5 O 3 4 O 3 4 O

Face view



Face view

Model H505L-2-XXX General purpose, self-amplified hydrophone

Output sensitivity			–160 dB re 1V/µPa
Amplifier gain			10 dB
Typical spectrum noise: at 10 Hzat 100 Hzat 1 kHzat 1 kHzat 10 kHz.			54 dB re 1μPa/VHz 34 dB re 1μPa/VHz 15 dB re 1μPa/VHz 6 dB re 1μPa/VHz
Frequency response, ±3dB			20 to 10,000 Hz 20 to 5,000 Hz
Maximum operating depth			250 meters
Output impedance			200 ohms
Supply voltage			24 VDC
Current			10 mA max
Cable ¹			3 conductor, shielded, 10 meters standard
Jacket material ¹			polyurethane, 0.285" dia.
Connector White Red Black Shield	Function n/c signal/power common internal housing		

Notes: ¹ Standard cable for units supplied with optional connectors is 5 conductor shielded, polyurethane, 0.25" dia., 10 foot length

Options: Customer specified cable length

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