



Model H505L General purpose, self-amplified hydrophone

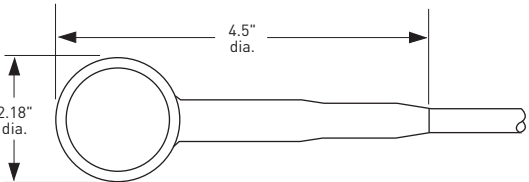
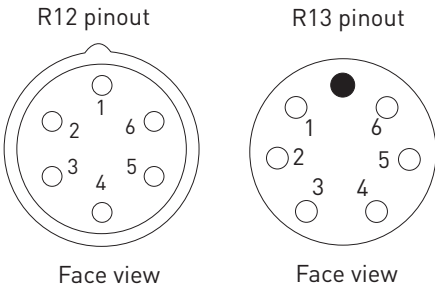
The H505L hydrophone is designed as a small, versatile, self-amplified hydrophone for general purpose applications to a wide variety of underwater acoustic measurements. Ruggedness, low cost and an ultra low-noise internal amplifier are prime features of this unit. The internal amplifier eliminates triboelectric 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.

Output sensitivity	-160 dB re 1V/ μ Pa
Amplifier gain	10 dB
Typical spectrum noise:	
at 10 Hz	54 dB re 1 μ Pa/VHz
at 100 Hz	34 dB re 1 μ Pa/VHz
at 1 kHz	15 dB re 1 μ Pa/VHz
at 10 kHz	6 dB re 1 μ Pa/VHz
Frequency response, \pm 3dB	2.0 to 10,000 Hz
Omnidirectional	2.0 to 5,000 Hz
Maximum operating depth	250 meters
Maximum temperature.....	80°C
Output impedance.....	200 ohms
Supply voltage.....	24 VDC
Current.....	10 mA max
Bias output voltage	10 V (nominal)
Cable	J95, 5-conductor, shielded, 0.25" dia, length specified by customer at time of order
Jacket material	polyurethane

Cable color	Function	Connector pin out
shield	case	1
black	common	2
red	B+, signal out	3
green	N.C.	4
white	N.C.	5
yellow	N.C.	6



How to order the H505L:

H505L - XXX - RXX - LX

Base model _____

Cable length in feet _____

Optional connector (Leave blank if N/A) _____

Optional locking sleeves (Leave blank if N/A) _____

- Available connectors: R12 underwater connector [Brantner RMK-6-MP]
R13 underwater connector [Brantner AWM-6-MP]
- Available locking rings: LP = plastic locking sleeve for R12 or R13
LS = stainless steel locking sleeve for R12 or R13

Wilcoxon Research Inc
20511 Seneca Meadows Parkway
Germantown, MD 20876
USA

Tel: 301 330 8811
Fax: 301 330 8873
Email: wilcoxon@meggitt.com

www.meggitt.com



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