

Ultra low-noise wide band hydrophone

H507A

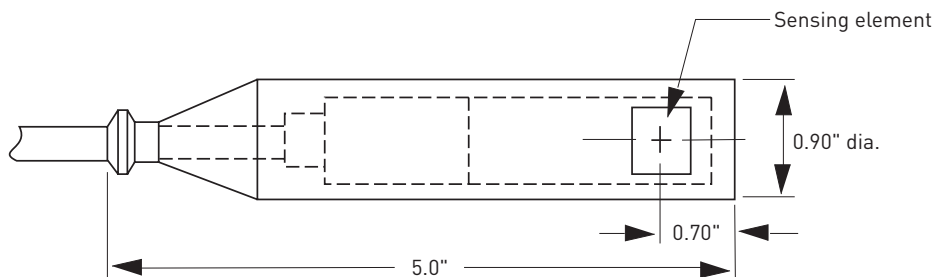
SPECIFICATIONS

Sensitivity, referred to input	-188 dB re 1V/ μ Pa	
Frequency range, ± 3 dB	10 - 100,000 Hz	
Gain¹	10 dB	
Patterns:		
XY plane, nondirectional	± 1 dB to 100 kHz	
XZ or YZ plane, nondirectional	± 1 dB to 10 kHz	
XZ or YZ plane, nondirectional over 270° span (attenuation in direction of cable exit)	± 1.5 dB to 100 kHz	
Acceleration sensitivity, re 1 μPa/g, 10 Hz	162 dB	
Noise, re 1 μPa/$\sqrt{\text{Hz}}$:	1 kHz	31 dB
	10 kHz	22 dB
	100 kHz	18 dB
Supply voltage	18 - 24 VDC	
Bias output voltage, nominal	10 VDC	
Supply current	4 - 10 mA	
Maximum output	3 V rms	
Output impedance	50 Ω	
Calibration pad	-14 dB, 40 Ω and 10 Ω , 0.1 W, 1 VAC rms max input	
Operating depth	500 meters	
Maximum depth	1,000 meters	
Maximum cable length, operation to 100 kHz	200 meters	
Cable^{2,3}	5 ft., 5-conductor, shielded, stripped and tinned	
External material	polyurethane	

Notes: ¹ Gain will vary as a function of crystal capacitance.

² Connectors are available with plastic or metal male locking sleeves, specified at time of order.

³ Customer-specified length.



Key features

- High sensitivity
- Incorporates an ultra low-noise preamplifier and calibration circuit
- Electrostatically shielded
- Compact size
- Manufactured in ISO 9001 facility

Connections		
Cable color	Function	Pin out
shield	case ground	1
black	signal return, common	2
red	+24 VDC	3
green	calibration input	4
white	signal output	5
yellow	not used, open	6

Note: Due to continuous process improvement, specifications are subject to change without notice.
This document is cleared for public release.