



**SWALE OCEANOGRAPHIC**

Teledyne Benthos

# Benthos Hydrophones

Confidence Underwater



LISTEN  
TRACK  
EXPLORE  
LOCATE  
DETECT  
HIGH RELIABILITY





	AQ-2000	AQ-1	AQ-16	RAFOS 1	RAFOS 2	AQ-17	AQ-18	AQ-25
<i>Suggested application</i>	Seismic arrays, ocean bottom cables, general purpose			Bulkhead mount, instrument housings		Gen. purpose pre-amplified hydrophone, scientific, noise monitoring		Broadband Pre-amplified hydrophone for general purpose
<b>Sensitivity</b> (dBv re 1 uPa @ 20 C)	-201	-201	-195	-201	-195	-175.5	-171	-172
<b>Sensitivity</b> (V/Bar @ 20 C)	8.9	8.9	17.8	8.9	17.8	168	282	250
<b>Capacitance</b> (nF @ 20 C)	4.5	14.5	3.5	14.5	3.5	N/A	N/A	N/A
<b>Frequency Response</b> (+/- 1.5 dB)	1 Hz to 10 kHz			1 Hz to 10 kHz			2 Hz to 90 kHz	
<b>Depth</b> (metres)	2000	1732	1732	1732		1732	1732	1500
<b>Length</b> (cm)	4.6	4.5	4.5	7.0	7.0	15.6	15.6	17.34
<b>Diameter</b> (cm)	1.65	1.6	1.6	1.6	1.6	2.54	2.54	2.54
<b>Weight</b> (g)	14.0	17.3	17.3	25	25	N/A	N/A	N/A
<b>Leads</b>	2 x AWG28	solder Pins	solder Pins	solder Pins	solder Pins	2 conductor shielded cable	2 conductor shielded cable	3 conductor shielded cable



<b>Pre-amplifiers</b>	AQ-201	AQ-202	AQ-300	AQ-302
<b>Suggested application</b>	High impedance voltage preamplifier	Lower noise version of AQ-201	High impedance differential voltage preamplifier	Lower noise version of AQ-300
<b>Gain</b> (dB)	26	26	20.8	
<b>Input Impedance</b> (Mohms)	15	15	30	
<b>Current (Quiescent)</b> (mA @ 12 VDC)	0.3	4.0	0.6	6.0
<b>Input referred noise</b> (nV rt Hz)	<100	<20	<100	<20
<b>Band pass</b>	5 Hz to 12 kHz		5 Hz to 14 kHz	
<b>Depth</b> (metres)	1732		1732	
<b>Length</b> (cm)	4.45		5.7	
<b>Diameter</b> (cm)	1.74		1.65	
<b>Weight</b> (g)	17.4		17.1	

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