



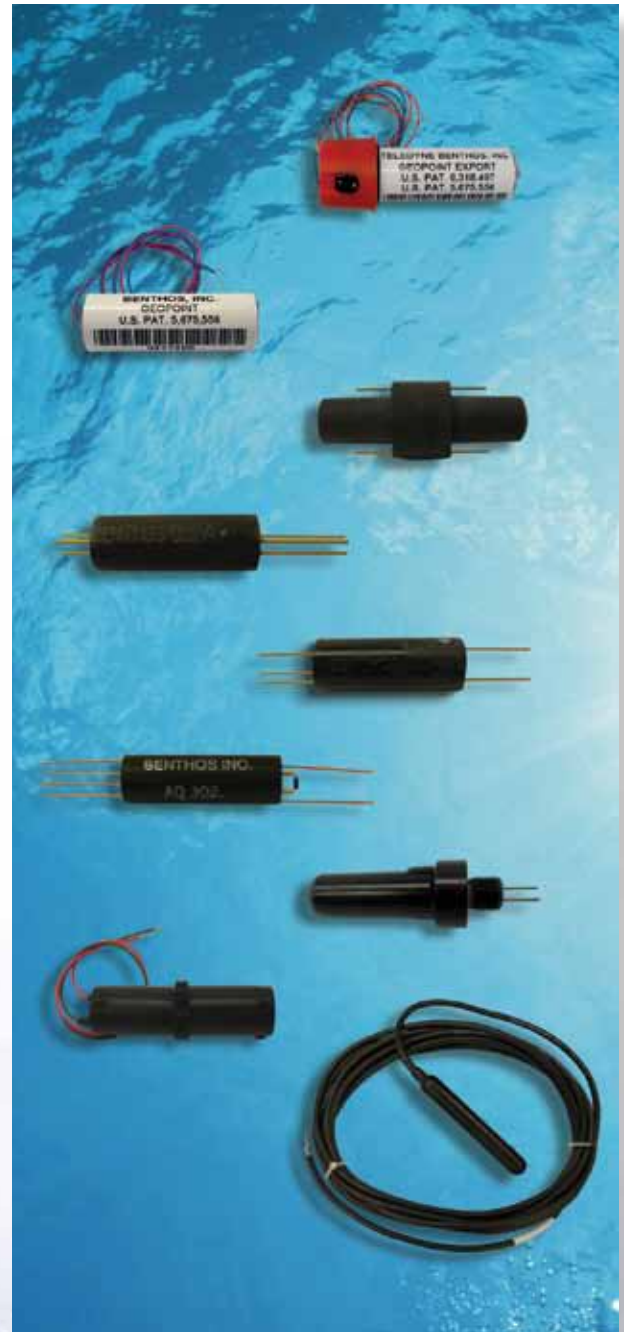
PRODUCT CATALOG
2012

Hydrophones

UNDERWATER ACOUSTIC RECEIVERS

Oil & Gas/Seismic Discovery and Exploration

Benthos hydrophones have proven invaluable in locating promising oil and gas reserves. The company's hydrophone products are also used by the military to detect submarines and other vessels under, and on the surface of the ocean. Benthos also supplies hydrophones to research institutions where they are used for various purposes, such as listening to marine animals.



INNOVATIVE UNDERSEA SYSTEMS TECHNOLOGY



**TELEDYNE
BENTHOS**

A Teledyne Technologies Company

50 Years of
Innovation
1962-2012

Hydrophones

HYDROPHONE ELEMENTS



Geopoint

Part Number:
C-460-354



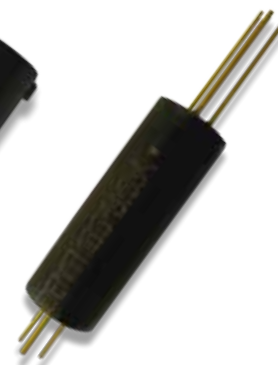
Geopoint Export

Part Number:
C-460-353



AQ-2000

Part Number:
B-460-586



AQ-1

Part Number:
C-460-190

SPECIFICATIONS	Geopoint	Geopoint Export	AQ-2000	AQ-1
Suggested Application	Seismic arrays	Seismic arrays, meets export restrictions	Seismic arrays, ocean bottom cables, general purpose	Seismic arrays, ocean bottom cables, general purpose
Sensitivity (dBv re 1 uPa @ 20 C)	-194	-194	-201	-201
Sensitivity (V/Bar @ 20 C)	20	20	8.9	8.9
Capacitance (nF @ 20 C)	16	16	4.5	14.5
Frequency Response (+/- 1.5 dB)	1 Hz to 1 kHz	1 Hz to 500 Hz	1 Hz to 10 kHz	1 Hz to 10 kHz
Depth (meters)	200	200 (Cutoff at 35 m maximum)	2000	1732
Length (cm)	5.1	6.5	4.6	4.5
Diameter (cm)	1.7	2.3	1.65	1.6
Weight (g)	25.0	33.0	14.0	17.3
Leads	Two AWG 26	Two AWG 26	Two AWG 28	Solder pins

Hydrophones

HYDROPHONE ELEMENTS



AQ-16

Part Number:
C-460-191



AQ-4

Part Number:
B-460-181



RAFOS-1

Part Number:
B-460-230-1



RAFOS-2

Part Number:
B-460-230-2

SPECIFICATIONS	AQ-16	AQ-4	RAFOS-1	RAFOS-2
Suggested application	Seismic arrays, ocean bottom cables, general purpose	Seismic arrays, ocean bottom cables, general purpose	Bulkhead mount, instrument housings	Bulkhead mount, instrument housings
Sensitivity (dBv re 1 uPa @ 20 C)	-195	-201	-201	-195
Sensitivity (V/Bar @ 20 C)	17.8	8.9	8.9	17.8
Capacitance (nF @ 20 C)	3.5	2.4	14.5	3.5
Frequency Response (+/- 1.5 dB)	1 Hz to 10 kHz	1 Hz to 15 kHz	1 Hz to 10 kHz	1 Hz to 10 kHz
Depth (meters)	1732	3300	1732	1732
Length (cm)	4.5	3.3	7.0	7.0
Diameter (cm)	1.6	1.3	1.6	1.6
Weight (g)	17.3	4.0	25	25
Leads	Solder pins	Solder pins	Solder pins	Solder pins

Hydrophones

MOLDED HYDROPHONES



AQ-17

Part Number:
B-460-25-1



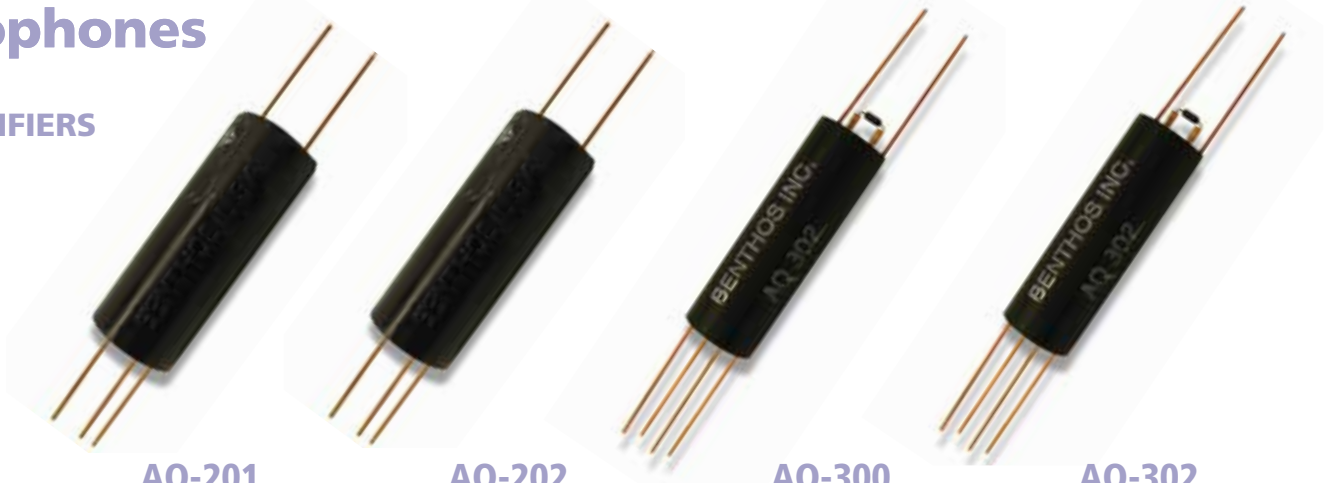
AQ-18

Part Number:
B-460-25-2

SPECIFICATIONS		
Suggested Application	General purpose preamplified hydrophone, scientific, noise monitoring	General purpose preamplified hydrophone, scientific, noise monitoring
Sensitivity (dBv re 1 uPa @ 20 C)	-175.5	-171
Sensitivity (V/Bar @ 20 C)	168	282
Capacitance (nF @ 20 C)	N/A	N/A
Frequency Response (+/- 1.5 dB)	5 Hz to 10 kHz	7 Hz to 10 kHz
Depth (meters)	1732	1732
Length (cm)	15.6	15.6
Diameter (cm)	2.54	2.54
Weight (g)	N/A	N/A
Leads	Two conductor, shielded cable - 25 ft	Two conductor, shielded cable - 25 ft

Hydrophones

PREAMPLIFIERS



AQ-201

Part Number:
B-460-173

AQ-202

Part Number:
B-460-193

AQ-300

Part Number:
B-460-172

AQ-302

Part Number:
B-460-185

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

*Other options and configurations available. Please call for details.
Typical (Depends on Hydrophone Element)

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50 Years of 
Innovation
1962-2012



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