

DATASONICS PSA-916 PROGRAMMABLE SONAR ALTIMETER

ACOUSTICS

The **Datasonics Model PSA-916 Programmable Sonar Altimeter** from Benthos is a low cost, light weight altimeter designed for diverse applications in the marine environment. The PSA-916 provides the user with high resolution altitude/range data, while simultaneously outputting data through a digital serial port. A wide beam angle provides for reliable and accurate range measurements under the most severe operational conditions.

Benthos offers a full line of underwater acoustic altimeters, one of which is sure to meet your unique requirements.



FEATURES

- ▶ Compact size and weight allows for integration with smallest of ROVs or marine sensors.
- ▶ Simultaneous analog and digital outputs provide altitude/range data.
- ▶ Electronically isolated to eliminate any potential signal interference with host instrument sensors.
- ▶ 2500 meter depth.
- ▶ Low cost.

APPLICATIONS

- ▶ ROV/Instrument altitude measurement.
- ▶ Bridge scour studies.
- ▶ Obstacle avoidance.
- ▶ Sediment transfer studies.
- ▶ Docking assistance for ships.

▶ ACOUSTICS

▶ FLOTATION

▶ GEOPHYSICAL

▶ HYDROPHONES

▶ IMAGING

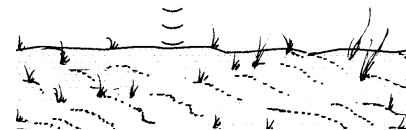
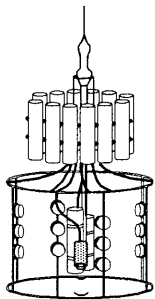
▶ MODEMS

▶ ROBOTICS

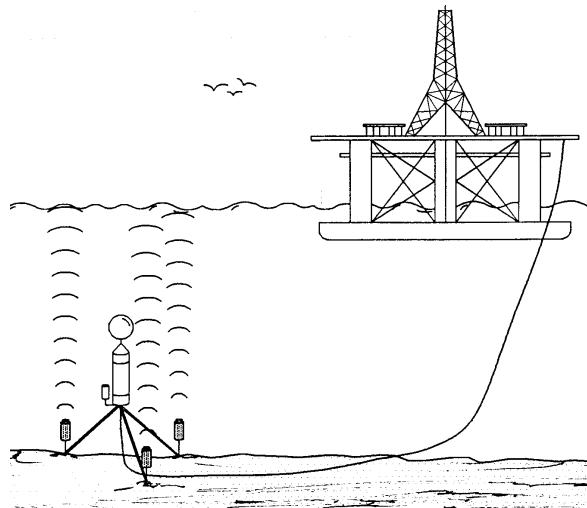


SPECIFICATIONS

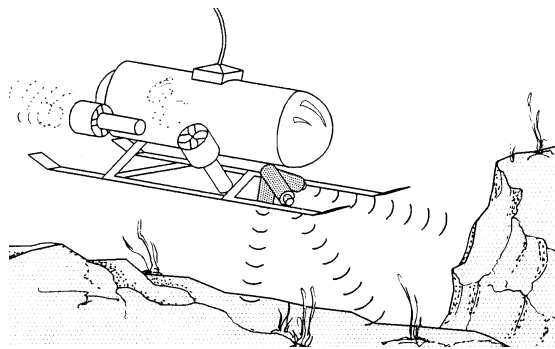
Operating Frequency:	200 kHz (nominal)
Beam Width:	14° conical typical
Pulse Length:	250 μ s standard
Repetition Rates:	5 pps or external
Range:	100 meters full scale
Resolution:	RS-232: 1cm Analog: 2.5 cm
Range Output:	Analog: 0-5 VDC Digital: RS-232
Operating Depth:	2500 meters/6000 meters (optional)
Power Required:	7 to 24 VDC
Power Consumption:	60 ma @ 15 VDC
Size:	2.25 in. diameter x 9.75 in. long
Weight:	1.4 lbs. in air; 0.8 lbs. in water



Instrument altitude/depth measurement



Acoustic wave height measurement



ROV altitude/depth/obstacle avoidance



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