The Datasonics Model PSA-916 Programmable Sonar Altimeter from Bentos is a low cost, lightweight 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.
**SPECIFICATIONS**

**Operating Frequency:** 200 kHz (nominal)

**Beam Width:** 14° conical typical

**Pulse Length:** 250 µs standard

**Repetition Rates:** 5 pps or external

**Range:** 100 meters full scale

**Resolution:**

- RS-232: 1 cm
- 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

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Acoustic wave height measurement

Instrument altitude/depth measurement

ROV altitude/depth/obstacle avoidance