

ARGONAUT[®]-MD

Acoustic Doppler Current Meter

FEATURES

- Full ocean depth rating
- High sensitivity for low-scatter environments
- Small & lightweight design clamps directly to mooring line
- Optimized 45 degree beam geometry
- Extremely low power consumption
- Optional pressure and conductivity sensors



600 m Delrin version
with 20 mm transducers

6000 m titanium version
with 40 mm transducers

As SIMPLE as it GETS

Combining unparalleled sensitivity and the reliability you expect, the Argonaut-MD (Mooring Deployment) acoustic Doppler current meter has become the instrument of choice in the oceanographic community. The MD's simple, yet elegant design, and its capacity for long-term deployments provide you with accurate, dependable ocean current data.



Typical deep-ocean
deployment clamped
directly to a mooring
line.



ViewArgonaut Windows
software for data display
and analysis.

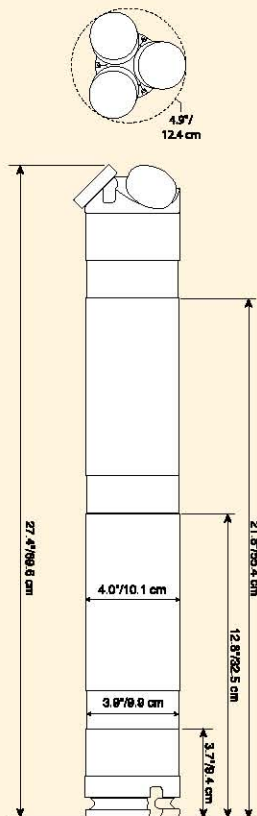


A YSI Environmental Company

THE WORLD LEADER FOR WATER VELOCITY MEASUREMENT

SPECIFICATIONS

Argonaut-MD



Dimensions for
6000 m rated
titanium version
shown.

600 m Delrin plastic
system is slightly
different.

Standard Features

- Optimized 45 degree slant, 120 degree orthogonal beam geometry for 3D current measurements with no directional bias
- 1.5 MHz Acoustic frequency
- 600 m rated Delrin housing with 40 mm transducers
- Reflected echo intensity output
- RS 232 communication protocol
- ViewArgonaut Windows software for real time data collection, data retrieval, diagnostics, and processing
- Flexible sampling strategies for reduced duty cycle operation and extended deployments of over 1 year
- Internal memory (stores over 95,000 samples)
- Temperature sensor mounted on exposed titanium pin for fast response
- Compass/tilt sensor
- Internal alkaline battery pack

Optional Features

- 6,000 m rated Titanium housing with 40 mm diameter ceramics for enhanced sensitivity
- 20 mm transducers (Delrin version only)
- Integrated external CT sensor
- Integrated internal inductive modem
- Mounting clamps
- Internal piezoresistive pressure sensor
- In-line load cage
- RS 422 communications protocol

Velocity

- Range: ± 6 m/s
- Resolution: 0.1 cm/s
- Accuracy: $\pm 1\%$ of measured velocity, ± 0.5 cm/s
- User programmable data output rate from 10 seconds to 12 hours

Temperature Sensor

- Resolution: 0.01°C
- Accuracy: $\pm 0.1^\circ\text{C}$

Compass/Tilt Sensor

- Resolution: Heading, Pitch, Roll 0.1°
- Accuracy: Heading $\pm 2^\circ$
- Accuracy: Pitch, Roll $\pm 1^\circ$
- Built-in calibration procedure to compensate for ambient magnetic fields

Physical & Environmental

- Operating temperature: -5° to 40°C
- Storage temperature: -10° to 50°C
- Weight in air: 5.6 kg / 12.5 lb (Delrin housing), 11.8 kg / 26 lbs (Titanium housing)
- Weight in water: 1.4 kg / 3.0 lb (Delrin housing); 7.7 kg / 17 lbs (Titanium housing)

Power

- Input power: 6-16 VDC
- Typical power consumption: 0.2 - 0.3 W (continuous operation); 0.001 (stand-by)
- Battery capacity (alkaline): 368 W-hr



Our remote measurement volume is free of any wake interference, thus eliminating the need for the cumbersome and inefficient mooring hardware required by other sensors.

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ISO 14001 : 2004
OHSAS 18001 : 2007

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Multiple Argonaut-MD systems with integrated CT sensors and load cages