

# ARGONAUT<sup>®</sup>-MD

## Acoustic Doppler Current Meter

### 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.

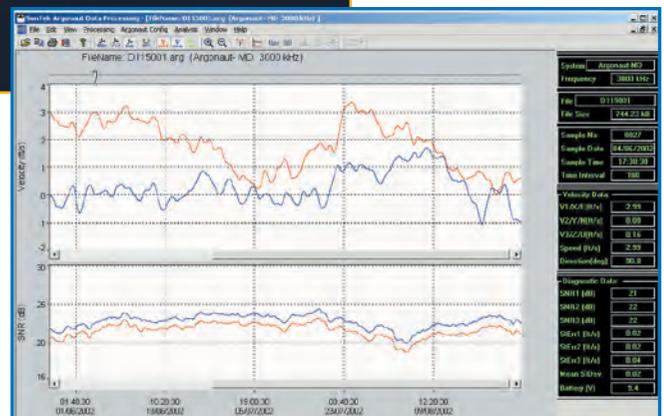
#### FEATURES

- Optimized 45 degree beam geometry for accurate readings in any position
- Small & lightweight design clamps directly to mooring line
- High sensitivity for low-scatter environments
- Flexible sampling strategies for long term deployments
- Optional pressure and conductivity sensors



*Typical ocean deployment clamped directly to a mooring line.*

*View Argonaut Windows software for data display and analysis.*



# SPECIFICATIONS

## Argonaut-MD

### 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
- Temperature sensor mounted on exposed titanium pin for fast response
- Compass/tilt sensor
- Internal alkaline battery pack

### Optional Features

- Integrated external CT sensor
- Mounting clamps
- Internal piezoresistive pressure sensor
- In-line load cage
- RS 422 communications protocol
- Real-time version/no battery required

### Velocity

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

### Temperature Sensor

- Resolution: 0.01°C
- Accuracy:  $\pm 0.1$ °C

### Compass/Tilt Sensor

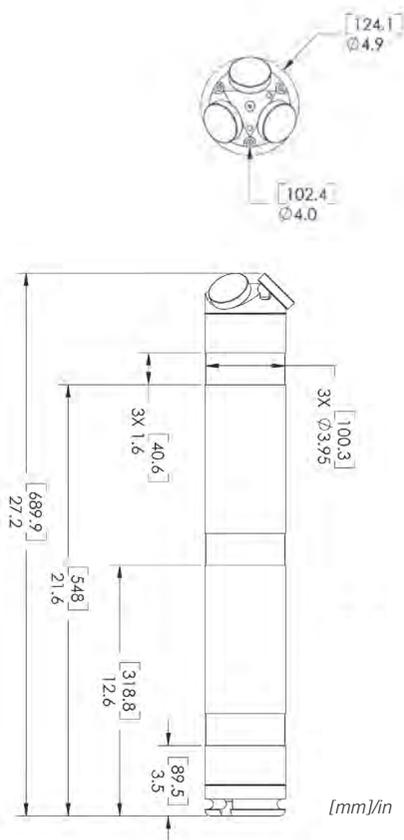
- Resolution: Heading, Pitch, Roll 0.1°
- Accuracy: Heading  $\pm 2$ °
- Accuracy: Pitch, Roll  $\pm 1$ °
- Built-in calibration procedure to compensate for ambient magnetic fields

### Physical & Environmental

- Operating temperature: -5° to 40°C
- Storage temperature: -10° to 50°C
- Weight in air: 5.6 kg/12.5 lb
- Weight in water: 1.4 kg / 3.0 lb

### Power

- Input power: 7-15 VDC
- Typical power consumption: 0.2 - 0.3 W (continuous operation); 0.001 (stand-by)
- Battery capacity (alkaline): 368 W-hr



[mm]/in



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.



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



Optional real-time Argonaut-MD

### GLOBAL HEADQUARTERS

#### SonTek/YSI

9940 Summers Ridge Road  
San Diego, CA 92121  
Tel: (1) 858-546-8327  
Fax: (1) 858-546-8150  
inquiry@sontek.com  
www.sontek.com

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