



Accurate Velocity Measurement for Shallow Water Applications

SonTek

Argonaut-ADV

Providing robust velocity measurements in a compact, easy-to-use package, the Argonaut-ADV is the ultimate instrument for shallow water flow monitoring.

Ideal for low-flow applications in shallow streams, marshes, lakes, or water treatment, the Argonaut-ADV's advanced Doppler technology measures single-point velocity away from flow obstructions. All signal processing is done internally allowing the Argonaut-ADV to be readily integrated with a wide range of additional sensors.

OPTIONS AND FEATURES

- Low flows down to 0.001 m/s (0.003 ft/s)
- Shallow water (as little as 1")
- RS232, SDI-12, or 4-20mA output
- Low power consumption
- Optional sensors for pollution monitoring
- Internal data logging
- Compact and light



Lake Deployment of the Argonaut-ADV



PERFORMANCE SPECIFICATIONS

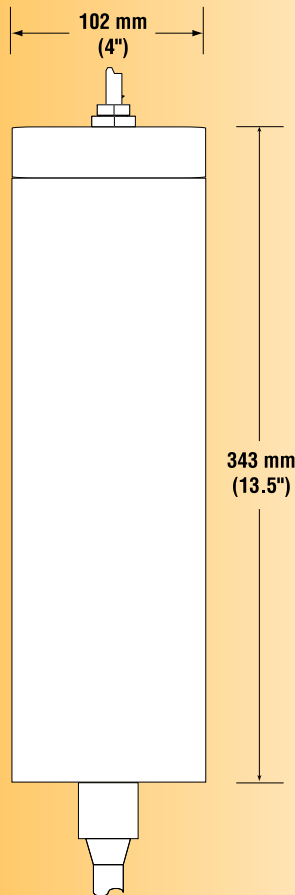
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Argonaut-ADV

2-D Side-Looking Probe



3-D Down-Looking Probe



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Physical Parameters

- Weight in air: 3.18 kg/7 lbs
- Weight in water: 0.45 kg/1 lb
- Pressure rating: 60m
- 3-D probe circumference: 130 mm (5.1")
- 2-D probe circumference: 147 mm (5.8")

Standard Features

- Fixed sampling volume of 0.25cc located 10 cm from transducer
- 3-D down-looking ADV probe on 15 cm stem
- RS232 communication protocols
- Flexible sampling strategies for reduced duty cycle operation and extended deployments
- 2 Mb internal memory (over 100,000 samples)
- Acoustic altimeter
- Temperature sensor for automatic sound speed compensation

Optional Features

- 2-D side-looking ADV probe for shallow water (as little as 2 cm) deployments
- ADV probe on 1 m flexible cable
- SDI-12 output module
- 4-20 mA output module
- RS 422 or RS 485 output
- 4MB internal recorder upgrade
- Compass/tilt sensor
- Internal battery pack for autonomous operation
- Integrated pressure sensor for water level measurement
- Integrated SeaBird CTD or YSI multiparameter probe
- SONWAVE wave spectra package
- Mounting clamps

Velocity

- Range: ± 0.001 - 4.5 m/s (± 0.003 to 15 ft/s)
- Resolution: 0.0001 m/s
- Accuracy $\pm 1\%$ of measured velocity, ± 0.001 m/s
- User programmable data output rate

Temperature Sensor

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

Environmental

- Operating temperature -5° to 40°C
- Storage temperature -10° to 50°C

Power Requirements

- Input power 7-30 VDC
- Typical power consumption (continuous operation): 0.2 to 0.5 W

Pressure Sensor

- Strain Gage (0.1 % accuracy)
- Resonance Pressure Transducer (RPT) (0.01% accuracy)



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MADE IN U.S.A.