

## 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



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## PERFORMANCE SPECIFICATIONS

**Argonaut-ADV** 

# SonTek

#### 2-D Side-Looking Probe





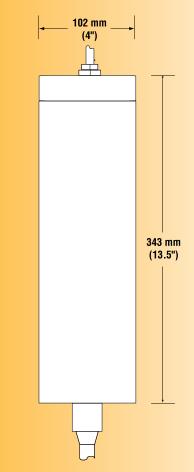
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## **Physical Parameters** Weight in air: 3.18 kg/7 lbs 2 Weight in water: 0.45 kg/1 lb Pressure rating: 60m ■ 3-D probe circumference: 130 mm (5.1") 2-D probe circumference: 147 mm (5.8") **Standard Features** Fixed sampling volume of 0.25cc located 10 cm from transducer 3 3-D down-looking ADV probe on 15 cm stem RS232 communication protocols ى 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**

- ى 2-D side-looking ADV probe for shallow water (as little as 2 cm) deployments
- ш ADV probe on 1 m flexible cable
  - SDI-12 output module
  - 4-20 mA output module
  - RS 422 or RS 485 output
  - **4**MB 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 ±1% of measured velocity, ±0.001 m/s
- User programmable data output rate

### **Temperature Sensor**

- Resolution 0.01°C
- Accuracy ±0.1°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)

For more information, or to receive news about our complete line of water velocity sensors, Please Call (858) 546-8327 or Visit Our Web Site: www.sontek.com

## CORPORATE HEADQUARTERS

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