**SYSTEM CONFIGURATIONS**

**Argonaut-SL**  
Side-Looking System  
The Argonaut-SL is a side-looking Doppler current meter that precisely measures 2-D water velocity in a horizontal layer. Because it is easily installed on a vessel, bridge abutment, or other vertical structure, it is the perfect choice for long-term current monitoring. Options for water level measurement, water quality, telemetry, and flow calculation extend the capability of the Argonaut-SL to a wide variety of applications such as:  
- River Discharge Monitoring  
- Ship Berthing  
- Irrigation  

**Argonaut-ADV**  
Accurate "Shallow-Water" System  
Providing robust, laboratory-precision flow measurements in a compact and easy-to-use package, the Argonaut-ADV is the ultimate solution to shallow water flow monitoring. Ideal for low-flow applications, it is equally sensitive in higher velocity environments and when precise water velocity is needed close to a boundary.  
- Low flows down to 0.001 m/s  
- Shallow water down to 2 cm  
- Optional pressure sensors  
- Ideal for marshes, streams and lakes  

**Argonaut-XR**  
Bottom-Mounted System  
Designed specifically for mounting on the bottom and looking up, the low-profile Argonaut-XR is an advanced Doppler sonar for 3-D water velocity measurement. Because the Argonaut-XR vertically integrates water velocity from the bottom all the way to the surface, it is an ideal tool for sites where bi-directional flows are present. Optional CTDs and multiprobes can make it a complete environmental monitoring solution.  
- Vessel Traffic  
- Environmental Studies  
- Canals  

**PRODUCT ADVANTAGES**

**Argonaut-SL**  
Featuring an ultra-programmable cell extending up to 120 m horizontally (500 kHz model), flow disturbances caused by the mounting structure can be eliminated by beginning the measurement cell out past the turbulent zone. An optional profiling feature enables up to 10 equally spaced cells. The vertical beam option enables simultaneous water level measurement for accurate flow measurement.  

**Argonaut-ADV**  
Providing robust, laboratory-precision flow measurements in a compact and easy-to-use package, the Argonaut-ADV is the ultimate solution to shallow water flow monitoring. Ideal for low-flow applications, it is equally sensitive in higher velocity environments and when precise water velocity is needed close to a boundary.  
- Low flows down to 0.001 m/s  
- Shallow water down to 2 cm  
- Optional pressure sensors  
- Ideal for marshes, streams and lakes  

**Argonaut-XR**  
The Argonaut-XR differs from other current meters in a very important way; the sampling volume size and location are adjustable. You program the size and vertical extent of the volume, which can extend out as far as 200 m from the transducer head. A special automatic mode can automatically adjust the measurement volume for changing water level. An optional multi-cell feature allows for an additional 5 cells of current profiling.
**Argonaut Standard**

**Specifications**
- Standard360° to 90° Argonaut
- Flexible Sampling Strategies
- Robust Digital Signal Processing
- 1 MHz Internal Recorder
- Windows 95/98/NT2000/XP Software
- PDA (Windows CE) software for PDA’s
- RS-132, RS-232 Communication
- 120 V Power, Communications Cable
- Temperature Sensor
- Operational Limits
  - Operating Temperature: -5 to 40°C
  - Storage Temperature: 10°C to 60°C
- Pressure Rating: 60 mbar Argonaut-ADV, 200 mbar Argonaut-XR and Argonaut SL.

**SonTek**
- San Diego, CA USA
- P.O. Box 1101
- Tel: (858) 546-8327
- Fax: (858) 546-8150
- e-mail: sales@sontek.com
- website: www.sontek.com

**Physical/Environmental Parameters**
- Weight in Air: 2.5 kg (5.5 lb)*
- 2.5 kg (5.5 lb)*
- 3.2 kg (7 lb)*
- Dimensions: 15.2 cm (6") diameter by 38.1 cm (15") length
  - 15.2 cm (6") diameter by 38.1 cm (15") length
  - 10.2 cm (4") diameter by 34.3 cm (13.5") length
- Power Requirements: 12-36 VDC
- Input Power: 6-30 VDC
- 6-30 VDC
- 0.2 to 3 W
- 0.2 to 5 W
- * Applying to 1.5 and 3.0-MHz SL in standard 9” formfactor. Contact SonTek/YSI for information about other formfactors

---

**Argonaut-SL, XR & ADV**

**Specifications**
- Argonaut-SL and Argonaut-ADV Configurations
  - 1.5 MHz transducer with sampling volume size from 3.5 m to 120.0 m (10 to 394.6 ft) from sensor (SL only)
  - 1.5 MHz transducer with sampling volume size from 3.5 m to 20.0 m (11 to 65.8 ft) from sensor
  - 3.0 MHz transducer with sampling volume size from 0.2 m to 8.0 m (0.7 to 26.2 ft) from sensor
  - Special 4D bitstream configurations at 4" (10 cm) diameter, settings for special application (not shown for details)
- Vertical Beam Options (Argonaut-SL only)
  - Maximum Measurement Range: 0-25 cm (10") x 15 cm (6")
  - Accuracy: (±0.3 cm/±0.01 ft) up to (3 m/10 ft), (±1% of range beyond (3 m/10 ft))
  - Resolution: 0.1 cm (0.004 ft)

**Argonaut SL, XR & ADV Features**
- Fixed sampling volume of 0.25 x locacted 10 cm from transducer in all configurations below:
  - 3-D Probe (130 mm x 3.1") Probe circumference
  - 2-D/3-D Side looking Probe for shallow water deployments (as a 2 cm (0.8") Probe circumference)
  - 2-D/3-D Side looking Probe for wide range of applications
  - Optional - ADV Probe mounted on 15 cm stem

**Flow Measurement**

Why haul around those heavy laptop computers when everything you need to work with your SonTek systems can be in your back pocket. SonTek has the solution to all your needs. The Argonaut-SL offers all the necessary capabilities to make your work easier. And, just like ViewArgonaut, it is made up of program modules for data collection and post-processing. ViewArgonaut is designed to work with all the modules in the Argonaut family. A built-in flow component makes measurement of river discharge/flow with an Argonaut-SL a snap.

**Argonaut Software**

**ViewArgonaut**

- Software, SonTek has always strived to bring the highest quality hydraulic software to the marketplace and ViewArgonaut is no exception.

- Why haul around those heavy laptop computers when everything you need to work with your SonTek systems can be in your back pocket. SonTek has the solution to all your needs. The Argonaut-SL offers all the necessary capabilities to make your work easier. And, just like ViewArgonaut, it is made up of program modules for data collection and post-processing. ViewArgonaut is designed to work with all the modules in the Argonaut family. A built-in flow component makes measurement of river discharge/flow with an Argonaut-SL a snap.

Other Great Products From SonTek

**FlowTracker**

- Handheld Doppler system for real-time discharge measurement with built-in discharge measurement algorithms.

**RiverSurveyor**

- Real-time discharge measurement system for open channel discharge measurement with optimal DOPs for bathymetric surveying.