

Argonaut-XR

MULTI-CELL DOPPLER CURRENT PROFILER

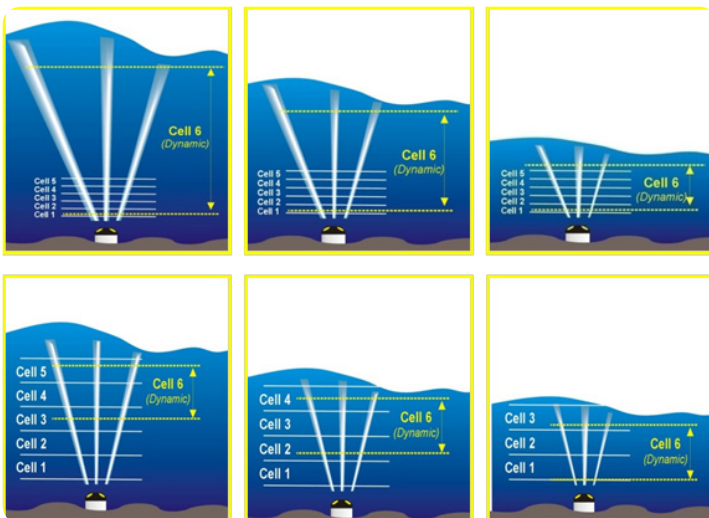
A Practical Solution to Current and Wave Measurement

The Argonaut-XR offers exceptional value for current profiling applications. Its small size, rugged build quality, and flexible programming options make the Argonaut-XR very attractive for both real-time operation as well as autonomous deployments.

With a main measurement cell that is independent of the velocity profile, an Argonaut-XR can be a single-cell current meter, profiler, or both. For example, the system can be programmed for a velocity profile in addition to a dynamic measurement cell which can be fixed in size and location anywhere in the water column, or configured to change its size or location as the water level changes (the Auto-Tide feature).

The basic autonomous configuration includes an external battery, internal recorder, compass/tilt sensor, pressure and temperature sensors.

Adding options such as the SonWave package, or a CT/TS sensor, make the Argonaut-XR the centerpiece of a complete oceanographic system.



The additional dynamic cell adjusts with changing water level.



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Argonaut-XR ACCESSORIES AND SPECIFICATIONS



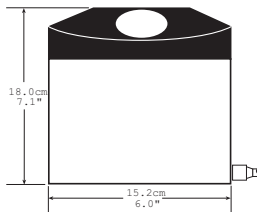
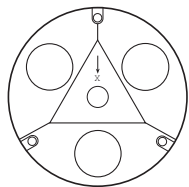
Pyramidal housing protects the Argonaut-XR from damage in busy ports, as shown here in Brazil.*



The Argonaut-XR on mounting plate with optional battery pack.



An XR and battery pack installed in an optional trawl-resistant mount.



Argonaut-XR Characteristics								
Frequency	Profiling Feature			Main Measurement Cell				
	Max Profiling Range	Min Cell Size	Min Blanking Distance	Cell Begin (CB)		Cell End (CE)		Min CE-CB
				Min	Max	Min	Max	
1.5MHz	20.0m (66.0ft)	0.40m (1.2ft)	0.50m (1.6ft)	0.50m (1.6ft)	19.5m (63.4ft)	1.50m (4.9ft)	20m (66.0ft)	1.00m (3.28ft)
750 kHz	40.0m (131.0ft)	0.80m (2.5ft)	0.80m (2.5ft)	0.80m (2.5ft)	46.5m (152.6ft)	4.30m (14.1ft)	50m (164.0ft)	3.50m (11.5ft)

Velocity	Main measurement cell plus up to 10 cells in profiling feature
- Range	±6 m/s
- Resolution	0.1 cm/s
- Accuracy	±1% of measured velocity, ±0.5 cm/s
Compass/Tilt Sensor	
- Calibration Procedure	Built-in, compensate for ambient magnetic fields
- Resolution	0.1°
- Heading Accuracy	±2°
- Pitch, Roll Accuracy	±1°
Temperature	
- Resolution	0.01°C
- Accuracy	±0.1°C
Pressure	Piezoresistive strain gauge, 0.1% accuracy
Recorder Size	4MB
Environmental	
- Pressure Rating	200m (pressure sensor dependent)
- Operating Temperature	-5° to 40°C
- Storage Temperature	-10° to 50°C
Physical	
- Housing	Delrin plastic
- Weight in Air	2.5 kg 5.5 lb
- Weight in Water	-0.3 kg -0.7 lb
- Dimensions	15.2cm x 18.0cm 6.0 in x 7.1 in
Power	
- Input Power	7-15 V DC
- Typical Power Consumption	0.2 to 0.5 W Continuous; 0.01 W Stand-by
Communications	RS232, SDI-12
Additional Features	
- External Battery Housing (500 WH)	Optional
- Real Time Waves (Height, Period, Spectra)	Optional
- RS422 Output	Optional
- Integrated CT sensor	Optional



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