

HydroFlow 600/1200

Acoustic Doppler Current Profiler



HydroFlow 600 / 1200

The HydroFlow series direct-reading Acoustic Doppler Current Profiler (ADCP) is an accurate and easy-to-use current profiling system, which can be deployed on flexible platforms: trimaran, USV, buoys, crewed vessel mountings, and so on. Providing accurate measurements with a 90m/40m range, the HydroFlow 600/1200 can be widely used for monitoring and surveying the discharge of rivers, canals, offshore, and other engineering projects.



Multiple Built-in Sensors

Integrating the gyro, temperature, and tilting sensor, HydroFlow 600/1200 offers mutipule source of infomation for the operation reference.



Long Profiling Range Multiple Cells

600Hz working frequency extends the current measurement range up to 90 meter (Hydro-Flow1200 up to 35m) with maximum 260 cells.



High Precision Current Measurement

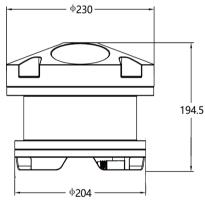
Supported by broadband signal processing technology, the anti-noise level has been improved while the current measurement accuracy can be up to 0.25%±0.25cm/s.

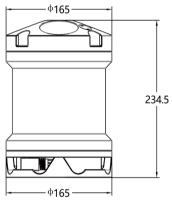


Easy to Use Software

Clear software working flow and UI lower the learning curve, making it easy to use.

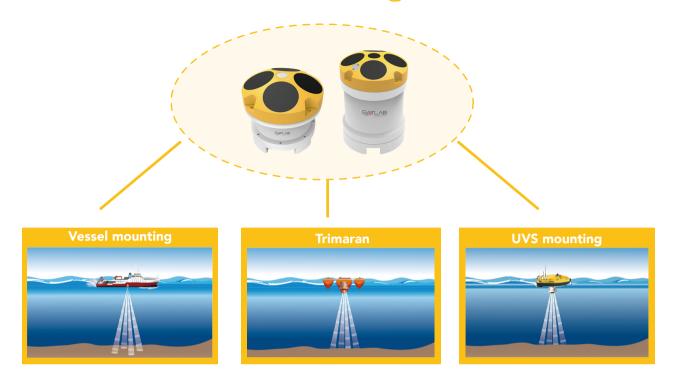
Dimensions







Flexible and versatile mounting



Acquisition and Processing Software



TECHNICAL SUPPORT
SatLab offers online resources and
a professional support network
available worldwide.

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Data Specifications		
Model	HydroFlow 600	HydroFlow 1200
Transducer and hardware System frequency	600kHz	1200kHz
Internal memory	16G standard	
Transducer type	piston	
Working mode	Broadband, Narrowband	Broadband, Narrowband, Pulse Coherente
Operation mode	Manual	Automatic & Manual
Beam	4 Beams Janus, 20° 5 Beams Janus, 20° (600kHz central beam	
Updating rate	Max 20Hz	
Water Velocity Profiling Velocity range (typical)	± 5m/s	
Velocity range (maximum)	± 20m/s	
Accuracy	0.25% ±0.2cm/s	
Resolution	1 mm/s	
Profiling range(distance)	0.3-90m	0.1-40m
Bottom tracking Velocity range	± 5m/s typical, ± 2	20m/s maximum
Depth range	0.4-120m	0.15-50m
Accuracy	+0.25% of water veloc	city relative to ADCP
Resolution	1 mm/s	
Cell Cell depth	0.05-4m	0.02-2m
Quantity	1~2	60
Internal Sensors Temperature: range/accuracy/resolution	-10°C~+60°C/±0.1°C/0.001°C	
Compass: range/accuracy/resolution	0°~360°/±0.5°/0.001°	
Motion sensor: range/accuracy/resolution	±30° / ±0.2° / 0.001°	
Pressure sensor (optional) (range accuracy/resolution)	0-200m/0.5%FS/0.01m	
Material Engineering plastic (standard	d), aluminum alloy(optional)	
Communication Communication protocol	RS-232 typical, RS-422 (optional) , WIFI(optional)	
Baud rate	4800-115200	
Power Iput	9~18VDC (standard 12V)	
Power consumption	3.5W (average)	
Environment Working temperature	-5°C ~+45°C	
Storage temperature	-20°C ~+60°C	
Float (Optional) Configuration	Three hulls(Trimaran), USV	
Material	Polyethylene(Trimaran), Carbon Fiber (USV)	
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Accessories