

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 platform: trimaran, USV and so on. Providing accurate measurement with 90m/40m range, the HydroFlow 600/ 1200 can be widely used for monitoring and surveying discharge of rivers, canal, 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

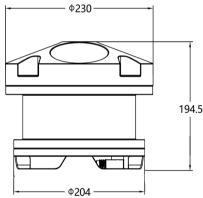
Supported by broadband signal processing technology, the anti-noise level has been improved while the current measurement accuracy can be up to 0.25%±0.25cm/s.

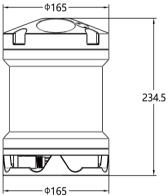


Easy to Use Software

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

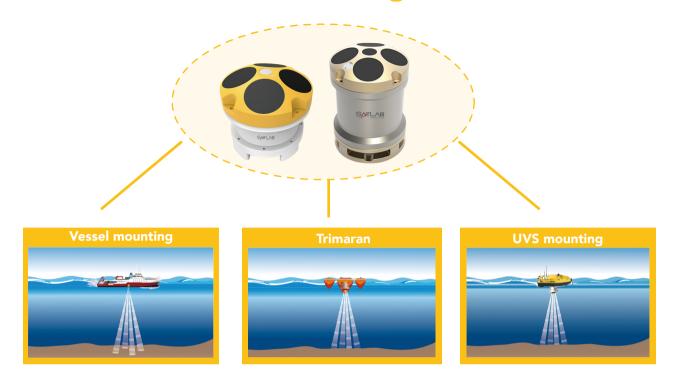
Dimensions







Flexible and versatile mounting



Software



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Data Specifications

Data Specifications		
Model	HydroFlow 600	HydroFlow1200
Transducer and hardware System frequency	600kHz	1200kHz
Internal memory	16G standard	
Transducer type	Piston	
Working mode	Broadband, Narrowband, Pulse Coherente	
Beam	4 Beams Janus, 20° 5 Be	ams 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, ± 20m/s maximum	
Depth range(minimum)	0.8m	0.15m
Depth range(maximum)	0.4-120m	0.15-50m
Depth range	90m	35m
Accuracy	+0.25% of water velocity re	elative to ADCP
Resolution	1 mm/s	
Cell		
Cell depth	0.05-4m	0.02-2m
Quantity	1~260	
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, aluminun	n alloy and titanium alloy thr	ee material selectable
Communication		
Communication protocol	RS-232 typical, RS-422, 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	



Headquarters:

Geosolution i Göteborg AB Stora Åvägen 21, 436 34 ASKIM, Sweden

Regional Offices:

Warsaw, Poland Jičín, Czech Republic Ankara, Turkey Scottsdale, USA Singapore Hong Kong, China Dubai, UAE

www.satlab.com.se



ADCP with Transducer, Cables, Charger, Processing software



Material

Accessories

Polyethylene(Trimaran), Carbon Fiber (USV)