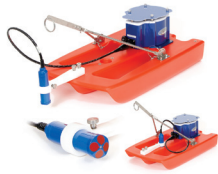


# StreamPro ADCP

## Shallow Streamflow Measurement System



### TECHNICAL SPECIFICATIONS

<b>Water Velocity Profiling</b>	Profiling range	0.1m <sup>1</sup> to 2m standard or 6m <sup>2</sup> with upgrade		
	Velocity range	±5m/s <sup>3</sup>		
	Accuracy	±1% of water velocity relative to ADCP, ±2mm/s		
	Resolution	1mm/s		
	Number of cells	1–20 standard or 1–30 with upgrade		
	Cell size	2cm to 10cm standard or 20cm with upgrade		
	Blanking distance	3cm		
	Data output rate	1Hz		
<b>Bottom Tracking</b>	Depth range	0.1m–7m <sup>2</sup>		
	Accuracy	±1.0% of bottom velocity relative to ADCP, ±2mm/s		
	Resolution	1mm/s		
<b>Depth Measurement</b>	Range	0.1m–7m <sup>2</sup>		
	Accuracy	1% <sup>4</sup>		
	Resolution	1mm		
<b>Sensors</b>		Temperature (standard)	Tilt (pitch and roll) (optional)	Compass (heading) (optional)
	Range	-4° to 45°C	±90°	0-360°
	Accuracy	±0.5°C	±0.3°	±1°
<b>Operation Modes</b>	Standard profiling (Broadband) High-precision profiling (included)			
<b>Transducer</b>	Frequency Configuration	2MHz Janus 4 beams at 20° beam angle		
<b>Software</b>	• StreamPro Software for Pocket PC • WinRiver II (included) for moving-boat measurement • SxS Pro (optional) for stationary measurement (i.e., under-ice); comes with an uncertainty model for in situ quality evaluation and control			
<b>Available Upgrades</b>	<ul style="list-style-type: none"> <li>• Extended profiling range to 6 meters</li> <li>• SxS Pro Software for stationary measurement.</li> <li>• Compass and tilt (pitch and roll) sensors</li> <li>• GPS</li> <li>• High-speed float</li> </ul>			
<b>Communications</b>	Bluetooth wireless Baud rates: 115,200 bps			
<b>Construction</b>	Cast polyurethane with stainless hardware			
<b>Power</b>	Voltage	10.5 –18 VDC (8 AA batteries, alkaline or rechargeable NiMH)		
	Battery capacity	7.5 hours continuous with 8 AA alkaline batteries; 12.75 hours continuous with 8 AA NiMH rechargeable batteries		
<b>Environmental</b>	Operating temperature:	-5°C to 45°C		
	Storage temperature:	-20°C to 50°C		
<b>Physical Properties</b>	Weight in air	5.9 kg including electronics, transducer, float, and batteries		
	Dimensions	Electronics housing: 16 x 21 x 11cm Transducer: 3.5cm diam. x 15cm length Float: 42 x 70 x 10cm <i>(line drawings available upon request)</i>		

1. Assume one good cell (minimum cell size) with high precision profiling mode, range measured from the transducer surface.  
 2. Assume fresh water, actual range depends on temperature and suspended solids concentration.  
 3. 2m/s for standard float; 3.5m/s for optional high-speed float.  
 4. Assume uniform water temperature and salinity profile

Specifications subject to change without notice.

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