


StreamPro ADCP


Acoustic Doppler Current Profiler

StreamPro ADCP [Acoustic Doppler Current Profiler] represents a revolutionary advancement in velocity and discharge measurement.







Quick and convenient data measurement



Easy to operate



Reliable bottom-tracking



Wireless communication

Now you can accurately measure discharge in shallow streams in a matter of minutes—a fraction of the time required using traditional hand-held devices. With StreamPro there’s no need to move from station to station to obtain single-point velocity data or compute the discharge by hand; discharge measurements are obtained in real-time.

StreamPro can be tethered to be pulled from a bridge, cableway, or tagline pulley system. This greatly improves

operator safety when compared to traditional wading techniques.

StreamPro has been designed to allow any level of user to immediately begin collecting high-quality, accurate data. The simple and highly intuitive user interface has been designed to ensure proper operation.

Technical data

Velocity profiling

Number cells	1 – 20 standard; 1 – 30 with upgrade
Minimum cell size	2 cm
Maximum cell size	10 cm standard; 20 cm with upgrade
Maximum range	2 m standard; 6 m with upgrade
1st cell start	7 – 30 cm (from transducer); depends on cell size
Accuracy (cell = 1/2 max.)	±1.0 % ±0.2 cm/s
Resolution	0.1 cm/s
Velocity range	±5 m/s (±2 m/s on standard float)

Physical properties

Weight in air	5 kg including electronics, transducer, float, and batteries
Dimensions	electronics housing: 150 x 200 x 100 mm transducer: 35 mm (diameter) x 150 mm (length) float: 440 x 700 x 110 mm
Construction	cast polyurethane with stainless hardware

Transducer

Frequency	2.0 MHz
Geometry	4 beams, 20° beam angle
Beam width	3°
Material	polyurethane

Standard sensors

Temperature	range: -4 °C to 40 °C accuracy: ±0.5 °C resolution: 0.01°
Thermistor in metallic housing in direct contact with water	

Communications

Bluetooth wireless	
Baud rates	115,200 bps

System components

- small transducer head
- electronics case
- small float
- bluetooth wireless
- data collection software

Power

Voltage	10 – 13.5 V DC (8 AA batteries, alkaline or rechargeable NiMH)
Electronics energy consumption	10 hours continuous with 8 AA alkaline batteries 12 hours continuous with 8 AA NiMH rechargeable batteries

Upgrades Available

- firmware to extend profiling range to 6 meters
- software to add Section-by-Section method
- compass; includes pitch and roll sensors

