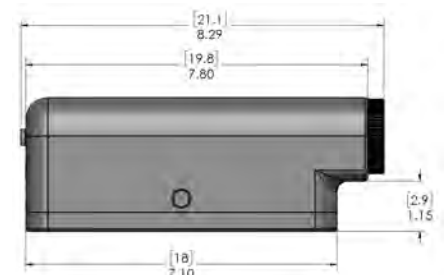
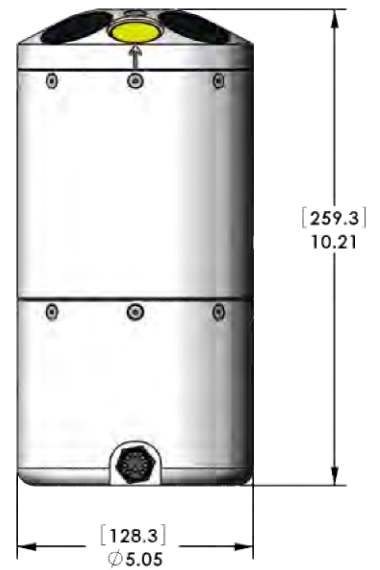
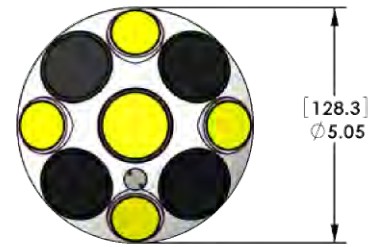


Specifications

Velocity Measurement	Metric	Imperial/English
Profiling Range (Distance)	0.06 to 40 m, environmentally dependent	0.2 to 131 ft
Accuracy	Up to +/- 0.25% of measured velocity; $\pm 0.2\text{cm/s}$	$\pm 0.078\text{ in/s}$
Profiling Range (Velocity)	$\pm 20\text{ m/s}^1$	$\pm 66\text{ ft/s}$
Resolution	0.001 m/s	0.0032 ft/s
Number of Cells	Up to 128	
Cell Size	0.02 to 4 m	0.06 to 13 ft
Transducer Configuration	Nine (9) transducers; Dual 4-beam 3.0 MHz/1.0 MHz Janus at 25° slant angle; 0.5 MHz vertical beam echosounder	
Depth Measurement		
Range	0.20 to 80 m	0.66 to 262 ft
Accuracy	1% [0.02% with a full water column sound speed correction]	
Resolution	0.001 m	0.003 ft
Discharge Measurement		
Range with Bottom-Track	0.3 to 40 m	1 to 131 ft
Range with GNSS/GPS	0.3 to 80 m, extrapolated beyond 40 m	1 to 262 ft
Computations	Internal	
Internal Recorder Size	8 GB	
Bathymetry Measurement		
Range	40 m (skew beams) to 80 m (vertical beam)	131 to 263 ft
Velocity Profiling Range	$\pm 10\text{ m/s}$	$\pm 32.8\text{ ft/s}$
Computations	Software	
Temperature Sensor		
Resolution	$\pm 0.01^\circ\text{C}$	$\pm 0.018^\circ\text{F}$
Accuracy	$\pm 0.1^\circ\text{C}$	$\pm 0.18^\circ\text{F}$
Compass/Tilt (Solid State Type)		
Range	360°	
Heading Accuracy	$\pm 2^\circ$	
Pitch/Roll Accuracy	$\pm 1^\circ$	
Power/Communications (No Telemetry)		
Input Voltage	12 - 18 VDC	
Communication Type	RS232 direct	
GNSS/GPS Communication	RS232 serial input	
Max Data Output Rate	1 Hz	
Internal Sampling Rate	Up to 70 Hz	
Physical Properties		
Depth (Pressure) Rating	30 m	164 ft
Operating Temperature	-5 to 45° C	23 to 113° F
Storage Temperature	-10 to 70° C	14 to 158° F
Weight in Air	2.3 kg	5 lb
Weight in Water	-0.6 kg	-1.3 lb
Power Communications Module (PCM)		
Communication Type	2.4 GHz radio	
Battery Type	Standard AA batteries ²	
Average Duration	8 hours of continuous use (6 hours with RTK)	
Radio Range ³	Standard (10 dBm) - High (22 dBm)	
Base to Rover	1000 m - 3000 m	3281 ft - 9843 ft
PC/tablet to Rover	400 m - 1500 m	1312 ft - 4921 ft
GNSS/GPS Options		
SBAS GNSS Horizontal Accuracy ⁵	<1.0 m	< 3.3 ft
RTK GNSS Horizontal Accuracy ⁵	<0.02 m	< 0.066 ft
RTK GNSS Vertical Accuracy ^{4,5}	<0.04 m	< 0.131 ft



Additional Notes

¹Please contact SonTek for accuracies better than 1%, or velocities >10 m/s.

²Standard AA batteries are defined as alkaline or NiMH rechargeables, with a diameter up to 14.5mm.

³High power may not be available in all countries; all ranges with default 2 dBi antenna and line-of-sight.

⁴Requires absolute RTK solution. Only available with HYPACK software.

⁵Depends on multipath environment, antenna selection, number of satellites in view, satellite geometry, and ionospheric activity.