

DVL/ADCP Specifications

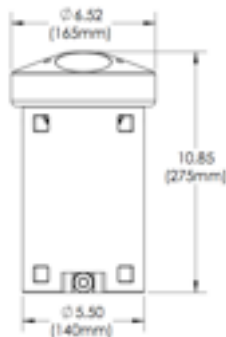
Specification subject to change without notice

Single Frequency (nominal)	1200 kHz	600 KHz	300 KHz
Transducer Type	Doppler Piston		
Beams	Four beams Inclined 20° in 90° azimuth increments		
Velocity Range	±20 m/sec Max; ±5 m/sec Typical		
Resolution	0.01 cm/sec		
Number of Cells	up to 200		
Cell Size	2.0 cm minimum		
Current Profiling:			
Range:			
Narrow Band	0.2m - 30m	0.4m - 90m	0.6m - 180m
Broad Band	0.2m - 20m	0.4m - 50m	0.6m - 100m
Long-Term Accuracy	High Accuracy Option ± 0.25%, ±2 mm/s, Low Accuracy Option ± 1.0%, ±2 mm/s		
BB Single-Ping Precision	4 cm/s @ 1m cell depth; ±5 m/sec max velocity	4 cm/s @ 2m cell depth; ±5 m/sec max velocity	4 cm/s @ 4m cell depth; ±5 m/sec max velocity
NB Single-Ping Precision	20 cm/s @1m cell depth; ±5 m/sec max velocity	20 cm/s @2m cell depth; ±5 m/sec max velocity	20 cm/s @4m cell depth; ±5 m/sec max velocity
Data Output Rate	1-2 Hz typical; 10 Hz max	1-2 Hz typical; 10 Hz max	1-2 Hz typical; 5 Hz max
Bottom Tracking			
Range:	0.2m- 50m	0.4m- 120m	0.6m- 350m
Velocity Accuracy	High Accuracy Option ± 0.25%, ±2 mm/s, Low Accuracy Option ± 1.0%, ±2 mm/s		
Single-Ping Precision	±0.4 cm/sec @ 3 m/sec	±0.5 cm/sec @ 3 m/sec	±0.6 cm/sec @ 3 m/sec
Resolution	0.01 cm/sec		
Sensors			
Compass: Range/Accuracy/Resolution	0-360 / 1° RMS / 0.01°		
Pitch/Roll: Range/Accuracy/Resolution	± 180°/ 0.05° RMS / 0.01°		
Water Temp: Range/Accuracy	-5C-70C / ± 0.15C		
Pressure: Range/Accuracy	Selectable / ±0.10% Range		
Materials Options	Plastic/Aluminum/Titanium		
Input Power:			
Voltage Range (Ext DC Input)	11 - 36 VDC	11 - 36 VDC	11 - 36 VDC
Power/Peak Current	4W typical	7W typical	11W typical
Output Data:			
Communications	RS485, RS232, 100BaseT Ethernet		
Data Content	Current Profile and Bottom Velocity (Vx, Vy, Vz, Ve), Altitude, Water Temperature, Heading, Time		
Internal Recording	8 GByte		
Environmental			
Temperature	-5°C to 40°C (Operating), -10°C to 70°C (Storage)		
Depth Rating	50m (1200KHz only), 300 m, 1000m, 3000m, and 6000m		

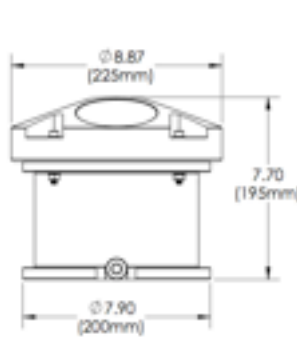
1200KHz
50m & 10000m



1200KHz / 600KHz
3000m & 6000m



300KHz / 600KHz
300m & 1000m



300KHz / 600KHz
3000m & 6000m

