

1200KHz DVL/ADCP Specifications

Single Frequency	1250 kHz
Dual Frequency	N/A
Dual Head Transducer	Optional
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
Blanking Distance	5.0 cm
Current Profiling:	
Range:	(NB = NarrowBand, BB = BroadBand)
NB High Power	N/A
NB Low Power	0.1 - 30 m
BB High Power	N/A
BB Low Power	0.1 - 20 m
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
NB Single-Ping Precision	20 cm/s @ 1m cell depth; ±5 m/sec max velocity
Data Output Rate	1-2 Hz typical; 10 Hz max
Bottom Tracking:	
Altitude Range	0.2 - 60m
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
Resolution	0.1 cm
Depth Measurement	
Range	0.10m - 60m
Accuracy	± 1%
Resolution	0.1 cm
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
Physical Dimensions:	
Materials Options	Plastic/Alumium/Bronze/Titanium
Input Power:	
Voltage Range	11 - 36 VDC
Power/Peak Current	4W typical
Output Data:	
Communications	RS485, RS232, 100BaseT Ethernet (Self-contained model)
Data Content	Current Profile and Bottom Vx, Vy, Vz, V _e , 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, 300 m, 3000 m and 6000 m