

3-Dimensional Current Measurement for Moored Profilers

The FSI 3D-Moored Profiler Current Meter delivers extremely precise, three-axis velocity measurement. The 3D-MP Current Meter incorporates a specially designed velocity head, which is mounted separate from the electronics to make readings less sensitive to currents caused by profiler equipment movement.



3D-MP Current Meter

FEATURES

- **3-Axis Cosine Response Velocity Measurement**
- **Velocity Accuracy $\pm 2\%$ of reading**
- **3-Axis Fluxgate Magnetometer w/ 2-Axis Tilt Sensor**
- **Simultaneous Real-Time Output and Logging Capability**

- **ASCII Serial Data Output via RS-232 (Optional RS-485)**
- **Built-In Real-Time Clock with Power Control**
- **1.0 Megabyte Internal Memory**
- **1000 Meter Standard Operating Depth (Full Ocean Depth Available)**
- **Optional Analog DC Channel Input for External Sensors (e.g., Turbidity, Oxygen, etc.)**

Excellence In Instrumentation



Falmouth Scientific, Inc.

1400 Route 28A, P.O. Box 315 • Cataumet, MA 02534-0315 • email: fsi@falmouth.com
Telephone: 508/564-7640 • Facsimile: 508/564-7643 • Website: www.falmouth.com

3D-MP Current Meter Specifications

Sensors

Parameter	Type	Range	Accuracy	Resolution
Velocity, cm/sec	Acoustic	0-300 cm/s	±2%	0.01 cm/s
Direction	3axis fluxgate	0-360°	±2°	0.01°
Tilt	2 axis	0-45°	±0.5°	0.01°
Temperature	Platinum	-2 -35°C	±0.5° C ±0.05°C *	0.01° C 0.01° C*
*Pressure	Strain Gauge	user specified	±0.15% full scale	0.02% full scale

* *Optional*

** *Consult factory for high-accuracy CTD options*

Instrument

Power	+7-14 VDC @ 12 mA @ 84 mW
Sample Rate	1.83 Hz Maximum
Vector Avg.	15 seconds to 1 hour
Physical Material	7000m Titanium Housing
Clock	32.768 kHz ±12 ppm per year Programmable Alarm/Sleep Functions External Switch Instrument Wake-up
Internal Memory	1.0 MB Standard
Weight	Air: 8.47 lbs. / 3.84 Kg Water: 5.50 lbs. / 2.49 Kg

Specifications Subject to Change without Notice



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