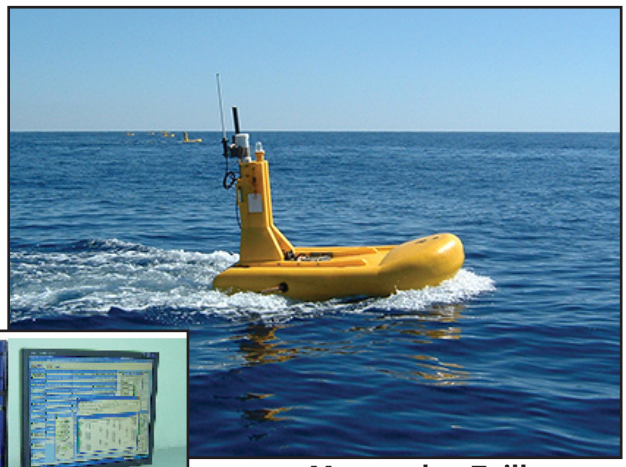
BuoyLink™ EX

RGPS Tracking System for Offshore Applications

OFFSHORE TECHNOLOGY SOLUTIONS™

The Seamap BuoyLink EX offers the latest in extended functionality for RGPS tracking of offshore equipment.



Mounted to Tailbuoy

Shipboard System

- **Centralized network configuration and monitoring software**
- **Bi-directional communication via RF or RS485 data link**
- **Remotely configurable via RF Link, RS485 or infrared port**
- **Shock mounted electronics and high strength housing**
- **RF range in excess of 12Km**
- **Twisted pair telemetry through streamer**
- **RtkNav RGPS software provides a standard interface to navigation systems including Concept Systems**
- **License free 900Mhz spread spectrum radio**

The BuoyLink EX has an intelligent bi-directional communication link which allows the operator to monitor, reconfigure and maintain each remote module in the network. A microprocessor controlled data acquisition board provides the intelligent interface for power and telemetry functions. All modules can either be equipped with 900Mhz radios or utilise a RS485 hardwire interface. An optional internal RF antenna is provided for radio units mounted on gun arrays. The electronic assemblies are shock-mounted and housed in a Delrin® high-strength enclosure with double o-ring seals. Close attention has been paid during the design to ensure reliable long-term operation in the harsh environment found where gun floats and tail buoys are operational.

The on-board instrumentation comprises of a PC running RTKNav RGPS solution software which accepts the raw GPS data from each remote unit and provides a high accuracy range and bearing. The RGPS software provides a standard interface to integrated navigation systems including Concept Systems. In addition, the Seamap network control and demultiplex software manages the GPS network and displays real-time status information from each remote module.

The BuoyLink EX system provides a reliable and cost effective solution for sub-meter tracking of multiple units with field proven accuracy.

Specifications:

GPS Receiver	**Number of Channels**	12 or 14
	Antenna Gain	26 dB +/- 3 dB
Communications	**Hardwire Telemetry**	RS 485 and RS422
	Radio Telemetry Output	902 to 928 MHz (spread spectrum) @ 1 watt
	Radio Telemetry Connector	AG waterproof coaxial bulkhead
	Range	Tailbuoy: >12 km Gun: >1 km
Power	**Input Power**	9 to 36 volts DC
Instrument Room Power Supply	**Number of Channels**	Providing power to 16 GPS modules
DGPS (Option)	**RTCM**	Corrections sent to each remote GPS unit
Mechanical	**Module Housing**	High strength Delrin® Plastic
	Module Dimensions (excluding mounting clamps and connectors)	133 mm (D), 305 mm (L)
	Module Weight (excluding clamps)	4.5 kg
Mounting Accessories	**Pole Mount With Clamp**	Combination Stainless Steel and Delrin®
	Docking Clamp	High strength Delrin® Plastic
Custom Mounting		Options available upon request

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11-00-1028-A