



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.

SEAMAP BUOYLINK 4DX

RGPS TRACKING SYSTEM FOR OFFSHORE APPLICATIONS



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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