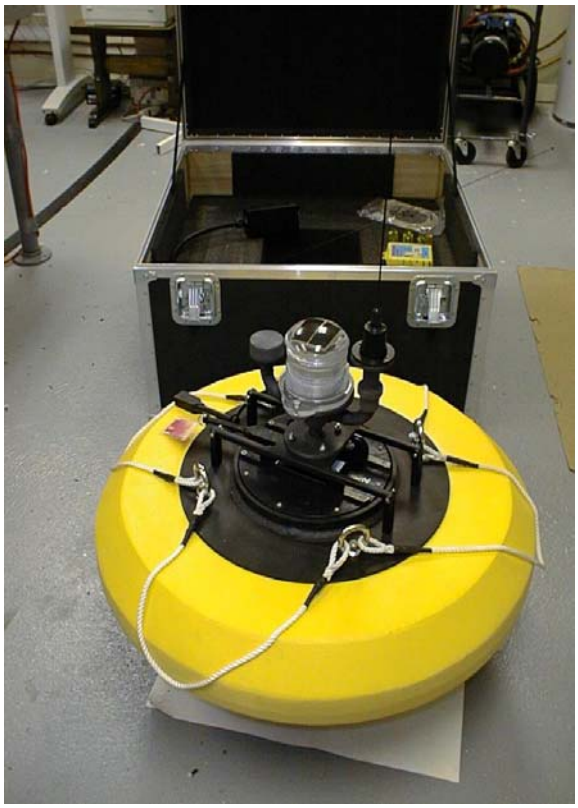
Planning Systems Inc.
A QinetiQ Company

Wave Sentry Buoy

A Real-Time Wave Measurement System

Wave Sentry Buoy is a small-diameter discus buoy. This innovative low-cost ocean wave monitoring system provides users with real-time directional and non-directional wave data. The Wave Sentry Buoy gives users the capability to quickly and easily collect data wherever and whenever it may be needed. Wave data are acquired automatically at preset intervals or on demand. After acquisition and onboard processing, wave data can be downloaded using the VHF radio modem or a hardwire connection upon retrieval. The buoy measures all components of motion needed to obtain directional wave data. Processed data include wave height, wave period, and wave direction. Non-directional and directional wave spectra are also available.



The **Wave Sentry Buoy** is lightweight, easily transported, deployed, and retrieved by hand from a small boat with a one- or two-person crew.

The electronics and battery housings can be removed from the flotation in a matter of seconds which allows the user to replace battery packs at sea without disturbing the mooring. If desired, the stored raw data can be downloaded to PC at the same time.

Specifications

Diameter of hull:	0.75 m (2.5 ft)
Diameter of instrument case:	0.22 m (0.7 ft)
Height w/antenna:	1.82 m (6.0 ft)
Height w/o antenna:	0.61 m (2.0 ft)
Battery life (variable):	1 month
Temperature range:	-20° C to +55° C (-4° F to +131° F)
Sampling rate:	4 Hz
Record length:	4096 samples
Record period:	17.1 min

Comms (options)

VHF:	151 - 154 MHz other frequencies available
Range: (line of sight only)	8 km (5 mi)
Iridium satellite:	coming soon
Range:	worldwide
PC data port:	external

Outputs

Directional wave spectra
Non-directional wave spectra

Significant wave height:	0 - 10 m ± 0.1 m (0 - 32.8 ft ± 0.3 ft)
Dominant wave period:	2 - 30 s ± 0.5 s
Average wave period:	2 - 30 s ± 0.5 s
Dominant wave direction:	0-360 deg ± 5 deg
Average wave direction:	0-360 deg ± 5 deg

Position

PSI
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