



Buoy Finder

Datawell - Oceanographic Instruments

Find drifting buoys fast with this portable, easy-to-use receiver



The new Buoy Finder is a portable receiver specifically designed to facilitate the retrieval of Waveriders adrift. This model is based on RX-C technology with its electronic frequency tuning and has 6 presets for buoy frequencies.

A Waverider with GPS and HF link transmits a new GPS position every half hour. This position is very useful during a rescue operation, when a drifting buoy must be retrieved. Although the RX-C does filter and display the GPS position, it is not suited to portable use because it cannot operate on batteries. This is where the Buoy Finder comes in.

The Buoy Finder offers the following advantages:

- **Portable**
The Buoy Finder is much smaller and lighter than the RX-C.
- **Independent power supply**
The Buoy Finder operates over 10 Hrs using four 1.5 V AA style batteries.

- **GPS position age estimation**
Because a new position is only determined every half hour, it is important to know when the position has been determined. The Buoy Finder provides a reliable estimate of the time elapsed since the most recent GPS position fix.
- **Headphone output**
The Buoy Finder has a headphone output for listening to the audio signal of the HF link.

The Buoy Finder can be used with all current Datawell buoys such as the DWR-G, DWR-MkIII and the WR-SG. Additionally, previous buoy marks such as the DWR-MkII are also supported.

The Buoy Finder works with a range of antennas including a portable whip antenna or a magnetic foot antenna that can be mounted on a ship to increase reception range.



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Specifications

Receiver	Frequency range	25.5 MHz – 35.5 MHz (35.5 - 45.0 MHz on request)
	Radio range	line of sight (max. 10 km) with flexible short antenna 50 km with standard receiving antenna
	Tuning	PLL synthesizer tuning
	Sensitivity	-116 dBm (0.5 μ V)
	Dynamic range	> 60 dB
	Display	2 x 16 characters liquid crystal display with backlight
	Head phone output	3.5 mm connector for 32 Ω to 300 Ω headphone
General	Batteries	4 x 1.5 V penlite battery type AA / LR6 / MN1500
	Power consumption	600 mW
	Operational life	> 10 Hrs using alkaline batteries
	Standby time	approximate 1.5 years
	Temperature range	-10 °C - +50 °C
	Weight	1.2 Kg
	Dimensions	170 mm x 55 mm x 225 mm (W x H x D)

