



WHS 6000

Technology:  Acoustic

Product:  Hydrophone

Northern pike (*Esox lucius*)



Wireless Hydrophone System - 69kHz Autonomous Acoustic Receiver/Datalogger

The WHS 6000 is an autonomous, submersible receiver/datalogger that detects, decodes and records the presence of 69kHz acoustic transmitters. This receiver is an affordable, compact, and lightweight system, compatible with 69kHz pulse-position modulation (PPM) coding systems, such as Open Protocol (OP), R64K and S256, as well as digital 69kHz systems, such as OPdi and OPds, that use a Binary Phase Shift Keying (BPSK) coding system.

Options

- Increased Sensitivity Omni-Directional Spherical Piezo or Cylindrical Piezo compatible
- 2 or 4 Lithium D-Cell Battery variants

Features:



Multiple protocol



Temperature



Depth



Beacon



Duty cycling

Multi-code set compatibility:

Detects multiple Open Protocol codesets used by Lotek and other manufacturers, promoting research collaboration.

Dual modulation receiver:

Capable of decoding both PPM and BPSK (digital) codes.

Integrated sensors:

Built-in temperature and tilt sensors, with the option of also including depth.

Product Applications

Ideal for projects that take place in large aquatic systems, such as the ocean or inter-connected lake systems, where multiple telemetry projects may be taking place, sometimes by different researchers.



Model	WHS 6000S	WHS 6000L
Weight (kg)	1.2	1.7
Life (days)	100 ^[1]	200 ^[2]
Size (ØxL) (mm)	60 x 435	60 x 585
Buoyancy	Slightly Negative (< 100g)	
Depth Rating (m)	400	
Compatible Codesets	PPM: OPi, OPs, R64K (A69-1303), S256 (A69-1105) BPSK: OPdi ^[3] , OPds ^[3]	
Data Storage/ Capacity	8 GB removable microSD card	

1. Operational life based on 2 lithium primary D-cells. Operational life may vary slightly based on beacon schedule and ambient temperature.
2. Operational life based on 4 lithium primary D-cells. Operational life may vary slightly based on beacon schedule and ambient temperature.
3. Future OP digital codesets.

Features and specifications subject to change.

Technical specifications:
 Operating temperature range: 0°C to 50°C
 Operating frequency: 69KHz
 Decoding: BPSK compatible

Data File Format Headers: Time, date, tag ID, relative signal strength and diagnostic information
 Diagnostic Information: Memory status, battery voltage, total number of detections and number of detections in last hour

Warranty

WHS 6000 hydrophones are warrantied to be free of defects in materials and workmanship under Normal Use subject to the depth rating, deployment and maintenance practices outlined in the corresponding Product Manual for a duration of 12 months.

For Warranty terms and conditions, please review our [Warranty Statement](#).

