



Arc2 Geolocation Archival Tags

Technology:  Archival

Product:  Tag

Bluefin Tuna (*Thunnus Thynnus*)



For collection and storage of precise time stamped depth, temperature and light-based geolocation data

Introducing the Lotek Arc2 Geolocation Archival tags, part of a new generation of archival tags, the Lotek Arc2 series. The product of over 25 years of archival tag design and manufacturing experience, from the company that achieved the longest light-based geolocation track ever: over 9 years! Arc2 tags are more energy efficient than their predecessors. They have larger memory and now employ metal housings for additional robustness in deep water applications.

Options

- Sensors: Accelerometer, Light, Magnetometer, Pressure, Temperature, Wet/Dry

Features:



Temperature



Depth



Magnetometer



Light



Wet/dry sensor

Wet start function:

Automatically enables logging when the tag is immersed.

Up to 256MB memory:

Memory contents retained for 25 years ensuring data retention even if the tag is recovered years after the battery is exhausted.

Product Applications

Timing of migration/movement studies, behaviour identification and characterization studies; feeding, spawning, migration, endangered species critical habitat utilization studies,

fisheries management stock structure studies, validation of stock assessment model studies, ocean observing studies.



Model	Arc2GEO -7TS	Arc2GEO -9TS	Arc2MAG -9TS	Arc2GEO -13TS	Arc2MAG -13TS	Arc2GEO -16TS	Arc2MAG -16TS
Weight in air (g)	3.1	5.1	5.5	17	17	45	45
Weight in water (g)	1.78	3.75	4.04	7.25	7.25	TBC	TBC
Life ⁽¹⁾ (Months)	12	46	36	>48	>48	>96	>96
Size (ØxL) (mm)	7 x 23	9 x 30	9 x 30	13 x 50	13 x 50	16 x 76	16 x 76
Depth scale options (m)	100 / 200 / 500 / 1000 / 2000						

1. The estimated life is based on a single deployment at 30 second sampling interval, derated by 20%. If you plan to deploy for multiple short deployments and/or sample at shorter intervals, please contact your telemetry specialist

Features and specifications subject to change without notice.



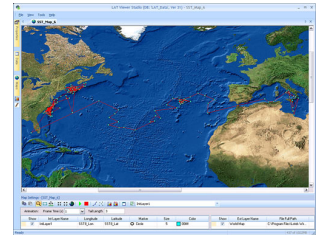
Arc2GEO-7TS



Arc2GEO-9TS



Arc2 Tag Reader



LAT Viewer Studio software

Technical specifications:

Depth sensor accuracy: +/-1.0% of full scale
 Depth sensor resolution: 0.05% of full scale
 Temperature sensor range: -20 °C to 45 °C
 Temperature sensor accuracy: better than ±0.3 °C
 Temperature sensor resolution: better than 0.05 °C
 Memory: up to 256 MB (depending on the model)
 Number of sequential logs: 8
 Sample rate setting: 1 sec. increments

Magnetometer (Arc2MAG models):

TMI accuracy: ±100 nT
 TMI resolution: 50 nT
 TMI range: 20,000 - 70,000 nT
 TMI sampling: 600s
 Accelerometer: x,y,z
 Software tools:
 Arc2 host
 LAT Viewer Studio post-processing and visualization

Warranty

Arc2 tags are warranted to be free of defects in materials and workmanship under Normal Use for a duration of 50% of Estimated Life to a maximum of: 6 months for the Arc2GEO-7TS, 12 months for Arc2GEO-9TS, 24 months for Arc2GEO-13TS and 36 months for the Arc2GEO-16TS.

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

