



# Arc2 Geolocation Archival Tags

Technology:  Archival

Product:  Tag

Bluefin Tuna (*Thunnus Thynnus*)



For collection and storage of precise time stamped depth, temperature and lightbased 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 <sup>(1)</sup> (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.



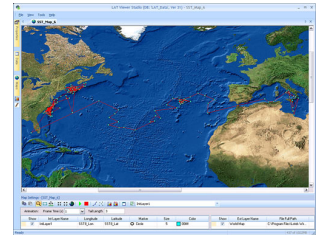
Arc2GEO-7TS



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](#).

