



LAT2000 Series – Light Geolocation

Technology:  Archival

Product:  Tag

Atlantic bluefin tuna (*Thunnus thynnus*)



Gain valuable insights into the life cycle of your species

Lotek Archival Tags (LAT) are compact, reliable instruments for collection and storage of precision-time-stamped depth, temperature and light-based geolocation data.

Options

- Sensors: Wet/dry sensor, Internal and external temperature sensors, Depth, Light
- A selection of pressure ranges is available for each tag to ensure the best match for every application.
- Four memory management (log type) options:
Day Log, Telescopic Log, Conditional Log, Basic Log.

Features:



Temperature



Depth



Light



Wet/dry sensor



Duty cycling

Light data:

Always logged for light geolocation.

Extended memory:

Up to 128 Mbytes of non-volatile memory are available on specific models.

Highly flexible programming:

With numerous configurable parameters, user selectable.

Product Applications

The LAT series is the ideal data storage solution for any biologist seeking reliable long-term life-cycle-related data for fish, wildlife or avian species.

| Model | LAT2500 | LAT2510 | LAT2800S | LAT2800L | LAT2810S | LAT2810L | LAT2310 ^[1] |
|-------------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|
| Life (months) | 12 ^[2] | 12 ^[2] | 12 ^[2] | 24 ^[3] | 12 ^[2] | 24 ^[3] | 36 ^[3] |
| | Tubular form factor: | | | | | | |
| Size (ØxL) (mm) | 8 x 35 | 8 x 35 | 11 x 38 | 13 x 44 | 11 x 38 | 13 x 44 | 16 x 76 |
| Weight in air (g) | 3.6 | 4.25 | 6.2 | 10.6 | 6 | 13 | 45 |
| | Flatpack form factor: | | | | | | |
| Size (LxWxH) (mm) | - | - | 36 x 11 x 7.2 | 36 x 13 x 10 | - | - | - |
| Weight in air (g) | - | - | 5.5 | 10 | - | - | - |

1. LAT2310 has a stainless steel housing and a stainless steel pressure sensor.
2. At the sampling interval of every 10 seconds
3. At the sampling interval of every 5 seconds

Features and specifications subject to change without notice.



Technical Specifications:

Memory: 128K, 512K (LAT2500 & LAT2510)

Extended memory: 128MB (LAT2800, LAT2810 & LAT2310)

Memory management: Custom programming

Sample rate setting: >1s in 1 sec. increments

Data resolution: Up to 12 bits maximum

Processing scale and offset: Yes

Data analysis software: Yes

Number of log structures allowed: 4

Calibrated sensor range: -5 °C to 35 °C

Operating temperature range: -20 °C to 45 °C

Temperature resolution: better than 0.05 °C

Temperature accuracy: better than ±0.2 °C

Depth range: 50m, 200m, 500m, 1000m, 2000m

Depth accuracy: ±1% of Full Scale

Depth resolution: 0.05% of Full Scale

Light stalk: (LAT2510, LAT2810 & LAT2310 only)

Warranty

LAT2000 tags are warrantied to be free of defects in materials and workmanship under Normal Use for a duration of 50% of Estimated Life to a Maximum of 12 months. For Warranty terms and conditions, please review our [Warranty Statement](#).