



LAT Geolocator-TDRs for Birds

Technology:  Archival

Product:  Tag

Sabine's gull (*Xema sabini*)



A tag that can record both migration and diving behaviour

The behaviour of seabirds is remarkable, but studying it can be difficult when they are out at sea. Our LAT2800 loggers can record light levels for geolocation analysis of migration, plus log pressure to record dive depths and frequency. Temperature and Wet/Dry sensors also help interpret the data.

The LAT series is the ideal data storage solution for any biologist seeking reliable long-term life-cycle-related data for migratory species that dive.

Two distinct LAT families are available: LAT1000 Series TDRs (time, temperature and depth recorders), and LAT2000 Series geolocators (light-based tags, this page).

Options

- Sensors: Wet/dry sensor, Internal Temperature, Depth, Light

Features:



Temperature



Depth



Light



Wet/dry sensor



Duty cycling

Template Fit Geolocation:
More sophisticated analyses

Up to 128 Mb data:
Plenty of storage for the data you want, with flexible scheduling

Robust packaging:
Field proven reliability for over 10 years

Product Applications

The LAT geolocators combined with temperature, depth and time recorders have been used successfully with many seabirds. They are robust, so can be fitted to the birds legs which is both better for the welfare of the

seabird than harness mounting, and means that time on the water is recorded. Combining the locations of birds with diving frequency and depth, you can learn about feeding behaviour during periods when they are out of sight.

Model	LAT2800S	LAT2800L
Expected life ¹⁾ (months)	12	24
	Tubular form factor:	
Size (ØxL) (mm)	11 x 38	13 x 44
Weight in air (g)	6.2	10.6
	Flatpack form factor:	
Size (LxWxH) (mm)	36 x 11 x 7.2	36 x 13 x 10
Weight in air (g)	5.5	10
Memory	128MB	

1. The estimated life is based on a single deployment with a sampling interval of no less than 10 seconds. If you plan to deploy for multiple short deployments and/or sample at shorter intervals than 10 seconds, please contact the appropriate Lotek Telemetry Specialist.

Features and specifications subject to change without notice.



LAT2800S (tubular form factor)



LAT2800S (flatpack form factor)

Technical Specifications:

Operating temperature: -20 °C to 60 °C
 Temperature measurement range: -5 °C to 35 °C
 Temperature calibrated range: -20 °C to 45 °C
 Temperature resolution: 0.05 °C or better
 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
 Sample rate setting: >1s in 1 sec. increments

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](#).

Warranty

LAT tags require a LAT Tag Reader for scheduling that tags and downloading data. Locations can be computed with LAT Viewer Studio. The software allows Template Fit and Threshold analysis.