# Lotek









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## Pop-up Satellite Archival Tag

The Lotek PSAT family of Pop-up Satellite Archival Tags are designed to maximise throughput of location data combined with reliability, longevity and ease of use.

## **Options**

- The Lotek **PSATGEO** tags implement Lotek's proprietary template-fit algorithm
  which calculates the light geolocation position estimates onboard the tag. This
  allows a complete daily snapshot to be transmitted in a single Argos transmission
  which significantly increases the probability of receiving data for each day of the
  scheduled deployment.
- **PSATLIFE** tags are targeted at short to medium term post-release survival studies, or other studies requiring detailed time-series depth and temperature records.
- **PSATFLEX** tags offer full customisation of the data collection, deployment duration and data transmission to meet the requirements of any study.

#### Features:











#### Low drag, stable design:

Maximises retention duration and minimises impact on the study animal.

#### **Inactivity Release:**

Monitors depth to determine if the tag is lying on the seabed or floating at the surface and then releases and transmits the onboard data.

**Wet-start function:**Offers ease of deployment.

## **Product Applications**

PSATGEO – long distance migration studies using light-geolocation.

PSATLIFE – studies investigating post-release survival in recreational fisheries and bycatch of non-target species in commercial fisheries

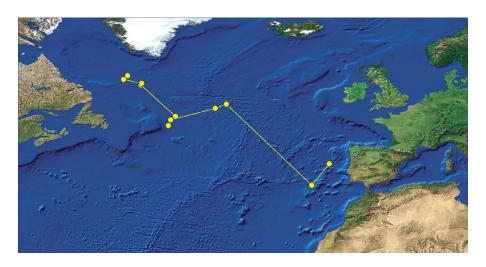
PSATFLEX – tailored configuration for any suitable study.

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Model	PSATGEO	PSATLIFE	PSATFLEX
Weight (g)	87	87	87
Duration (Days)	120 / 240 / 365	14/28/53/85	up to 365
Size (mm)	131 x 42	131 x 42	131 x 42

Features and specifications subject to change without notice.



Filtered 3 month PSAT track of an Atlantic bluefin tuna from Spain to the Labrador Sea. (Filter set to  $2^{\circ}$  of latitude and  $1^{\circ}$  of longitude)

Technical specifications:
Memory: 8MB
Operating temperature range: -5°C to 60°C
Buoyancy: minimum 8g
Inactivity Release:

• GEO/LIFE: none, 3 day / 5m, 3 day / 15m

• FLEX: 0-max depth for 0-999 days (PSATFLEX)

Clock accuracy: Better than 2 mins per year

Standard sensors:

Wet/dry sensor, External temperature, Depth, Light Temperature sensor range: -10°C to 45°C Temperature sensor accuracy: +/- 0.2°C Temperature sensor resolution: 0.05°C Depth sensor ranges: 500m, 1000m, 2000m

Depth sensor accuracy: ±1% of Full Scale Depth sensor resolution: 0.05% of Full Scale

### Warranty

PSAT 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 <u>Warranty Statement</u>.

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