



## LAT2000 Series – Light Geolocation

Technology:  Archival

Product:  Tag



### 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 <sup>[1]</sup>
Life (months)	12 <sup>[2]</sup>	12 <sup>[2]</sup>	12 <sup>[2]</sup>	24 <sup>[3]</sup>	12 <sup>[2]</sup>	24 <sup>[3]</sup>	36 <sup>[3]</sup>
	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



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)

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

### 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](#).