



LAT1000 Series – Depth, Temperature

Technology:  Archival

Product:  Tag



Gain valuable insights into the life cycle of your species

Lotek Archival Tags are compact, reliable instruments for the collection and storage of time, fine scale time series temperature and depth data.

Field proven reliability for over 10 years.

Options

- Seven maximum pressure scales are available: 30m, 50m, 100m, 200m, 500m, 1000m, and 2000m.
- Three memory management (log type) options: Telescoping Log, Conditional Log, Basic Log

Features:



Temperature



Depth



Duty cycling

Flatpack form factor:

For external attachment. (LAT1100, LAT1800S & LAT1800L only)

Two temperature sensors:

Standard internal sensor and a second sensor mounted on a stalk to measure water temperature outside the body. (LAT1410 only)

Highly flexible programming:

With numerous configurable parameters, user selectable.

Product Applications

LAT 1000 temperature depth archival tags are used with both marine and freshwater fishes. Providing insight into diurnal diving patterns and habitat preference.

Model	LAT1100	LAT1400	LAT1410	LAT1500	LAT1800S	LAT1800L
Life ⁽¹⁾ (months)	12	12	12	12	12	24
Tubular form factor:						
Size (ØxL) (mm)	-	11 x 35	11 x 35	8 x 32	11 x 38	13 x 44
Weight in air (g)	-	5.2	5	3.4	7.6	11
Weight in water (g)	-	2.7	~2	~0.9	3	5
Flatpack form factor:						
Size (LxWxH) (mm)	31.5 x 15 x 6.8	-	-	-	36 x 13 x 11	42 x 16.7 x 16.7
Weight in air (g)	4.25	-	-	-	9.03	10.88
Weight in water (g)	1.9	-	-	-	4.45	4.5

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 your telemetry specialist. Conditional Logs are designed to conserve memory, but can use additional power in the process as the sensors must be sampled to test the criteria, whether the data are written to memory or not.



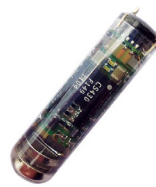
LAT1100



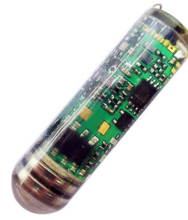
LAT1400



LAT1410



LAT1500



LAT1800S
(Tubular)



LAT1800L
(Tubular)

Standard Sensors:

Wet/dry sensor, Internal temperature,
 External temperature (LAT1410 only), Depth
 Depth sensor accuracy: ±1% of Full Scale
 Depth sensor resolution: 0.05% of Full Scale
 Temperature sensor range: -20 °C to 45 °C
 Temperature sensor accuracy: better than ±0.2 °C
 Temperature sensor resolution: 0.05 °C or better

Technical Specifications:

Data analysis software: Yes
 Sample rate setting: >1s in 1 sec. increments
 Number of log structures allowed:
 1 (LAT110 & LAT1400 (64k version))
 3 (LAT110 & LAT1400 (128k version), LAT1410)
 4 (LAT1500, LAT1800S & LAT1800L)

Warranty

LAT1000 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](#).