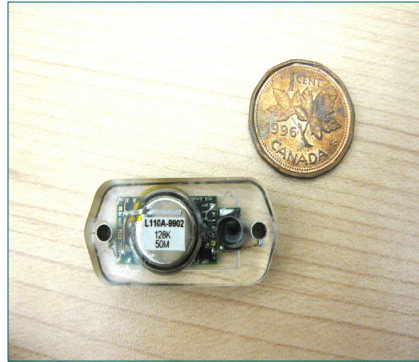


# Lotek Archival Tag Series

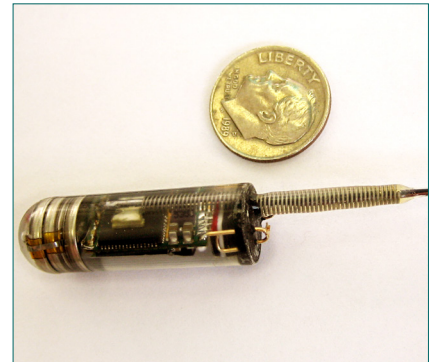
## Time, temperature & depth archival tags



LAT1100



LAT1400



LAT1410

Gain valuable insights into the life cycle of your species.

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

Available now: **LAT1100, LAT1400, LAT1410 & LAT1500, LAT1800 (S,L)**

### Key Features

- Seven maximum pressure scales are available: 30m, 50m, 100m, 200m, 500m, 1000m, and 2000m.
- The LAT1410 uses two temperature sensors: the standard internal sensor and a second sensor mounted on a stalk to measure water temperature outside the body.
- LAT1100 is built as a flatpack for external attachment.
- The LAT1500 features a wet/dry sensor - this identifies when the tag is immersed in water.
- Highly flexible in its programming with numerous configurable parameters, user selectable.
- LAT1800 features 128 Mbytes of data memory allowing for an unprecedented number of samples to be collected.
- Data ranges are configured by specifying the min. and max. limits for each sensor. Data resolution is determined by the number of bits (up to 12) assigned to each sensor. This optimizes the memory usage per sensor; selecting a lower resolution and/or narrow data range will increase the number of samples collected.
- Three memory management (log type) options:
  - 1) Telescoping Log: allows the total times series storage capacity of the tag to be evenly distributed over the entire mission
  - 2) Conditional Log: samples recorded (or not) based upon the condition of one or two sampled "loggables"; and sample rate below a certain depth)
  - 3) Basic Log: straight sampling.

**LOTEK**  
WIRELESS  
FISH & WILDLIFE MONITORING

*Innovative solutions for a sustainable future.*

- Receivers
- Dataloggers
- Radio transmitters

- Acoustic transmitters
- Archival tags
- GPS systems

- Hydrophones
- Wireless hydrophones
- Physiological transmitters

- Depth transmitters
- Accessories
- Consulting

# Lotek Archival Tags: TDR

## Specifications

	LAT1100	LAT1400	LAT1410	LAT1500	LAT1800S	LAT1800 L
<b>Tubular form factor:</b>						
Dimensions (mm)		11 X 35	11 X 35	8 X 32	11 x 38	13 x 44
Weight in air		5.2 g	5 g	3.4 g	7.6 g	11 g
Weight in Water		2.7 g	~2 g	~0.9 g	3 g	5 g
<b>Flatpack form factor:</b>						
Dimensions (mm)	31.5 X 15 X 6.8				36 x 13 x 11	42 x 16.7 x 16.7
Weight in air	4.25 g				9.03 g	10.88 g
Weight in Water	1.8 g				4.45 g	4.5 g
Sample rate setting	≥1s in 1 sec. increments					
Wet/dry sensor	Yes					
Standard Depth Range	50m, 100m, 200m, 500m, 1000m	50m, 100m, 200m, 500m, 1000m, 2000m	50m, 100m, 200m, 500m, 1000m, 2000m	50m, 100m, 200m, 500m, 1000m, 2000m	50m, 100m, 200m, 500m, 1000m, 2000m	50m, 100m, 200m, 500m, 1000m, 2000m
Sensors	Internal Temperature, and Pressure	Internal Temperature, and Pressure	Internal & External Temperature, and Pressure	Internal Temperature, and Pressure	Internal Temperature, and Pressure	Internal Temperature, and Pressure
Temperature Sensor Stalk	No	No	Yes	No	No	No
Pressure Accuracy	±1.0% F.S.					
Pressure Resolution	0.05% F.S.					
Temperature Measurement range	-20 to 45° C					
Calibrated Range	-5 to 35° C					
Temperature Accuracy	Better than 0.2° C					
Temperature Resolution	0.05° C or better					
Number of log structures allowed	1 (64k version), 3 (128k version)	1 (64k version), 3 (128k version)	3	4	4	4
Estimated Life <sup>(2)</sup>	12 months <sup>(1)</sup>	12 months <sup>(1)</sup>	12 months <sup>(1)</sup>	12 months <sup>(1)</sup>	12 months <sup>(1)</sup>	24 months <sup>(1)</sup>
Warranty Life	6 months	6 months	6 months	6 months	6 months	12 months
Data Analysis Software	Yes					

**NOTE:** These specifications are subject to change.

(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.

(2) 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.

**LOTEK**  
WIRELESS

FISH & WILDLIFE MONITORING

Innovative solutions for a sustainable future.



E0217-001

Tel: 905-836-6680  
Fax: 905-836-6455

Web: [www.lotek.com](http://www.lotek.com)  
Email: [biotelemetry@lotek.com](mailto:biotelemetry@lotek.com)