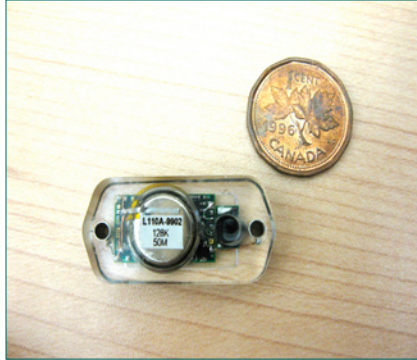


Lotek Archival Tag Series

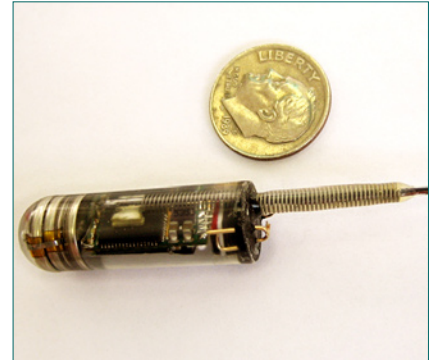
Time, temperature & depth archival tags



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.
- Communications with the tags are highly reliable and fast (<2sec to connect) - now made through physical contacts.
- Enhanced biocompatibility from an inert coating.
- The LAT1500 features a sea water switch - this identifies when the tag is immersed in water.
- Tag design and components selection to ensure a typical two year life.
- 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
					Tubular form factor:	
Dimensions (mm)	31.5 X 15 X 5.6	11 X 35	11 X 35	8 X 32	11 x 38	13 x 44
Weight in air	4.5 g	5.1 g	5 grams	3.4g (estimate)	6.3 grams	11 grams
Weight in Fresh Water	~ 1.7 grams	~ 1.5 grams	~ 2 grams	~0.9g	TBD	
					Flatpack form factor:	
Dimensions (mm)					36 x 11 x 7.2	36 x 13 x 10
Weight in air					4.8 grams	9 grams
Weight in Fresh Water					TBD	
Max Operation Temperature	35° C	35° C	35° C	35° C	35°C	
Min Operation Temperature	-5° C	-5° C	-5° C	-5° C	-5° C	
Number of samples	Variable based upon data storage options selected	Variable based upon data storage options selected	Variable based upon data storage options selected	Variable based upon data storage options selected	variable based upon data storage options selected	
Sample rate setting	≥1s in 1 sec. increments	≥1s in 1 sec. increments	≥1s in 1 sec. increments	≥1s in 1 sec. increments	≥1s in 1 sec. increments	
Data Download	Gold electrical contacts, 57.6 kbauds	Gold electrical contacts, 57.6 kbauds	Gold electrical contacts, 57.6 kbauds	Gold electrical contacts, 57.6 kbauds	Gold electrical contacts, 57.6 kbauds	
Sea water switch	Yes	Yes	Yes	Yes	Yes	
Standard Depth Range	30m, 50m, 100m, 200m, 500m, 1000m	30m, 50m, 100m, 200m, 500m, 1000m, 2000m	30m, 50m, 100m, 200m, 500m, 1000m, 2000m	30m, 50m, 100m, 200m, 500m, 1000m, 2000m	30m, 50m, 100m, 200m, 500m, 1000m, 2000m	
Data Resolution	Up to 8 bit (64k version) or up to 12 bits (128k version)	Up to 8 bit (64k version) or up to 12 bits (128k version)	Up to 12 bits maximum	Up to 12 bits maximum	Up to 12 bits maximum	
Processing scale and offset	No	No	No	Yes	Yes	
Sensors	Internal Temperature, and Pressure	Internal Temperature, and Pressure	Internal & External Temperature, and Pressure	Internal Temperature, and Pressure	Internal Temperature, and Pressure	
Temperature Sensor Stalk	No	No	Yes	No	No	
Light sensor stalk	No	No	No	No	No	
Pressure Accuracy	±1%	±1%	±1%	±1%	±1%	
Pressure Resolution	0.05%	0.05%	0.05%	0.05%	0.05%	
Temperature Measurement	-5° to 35° C	-5° to 35° C	-5° to 35° C	-5° to 35° C	-5° to 35° C	
Temperature Accuracy	Better than 0.2° C	Better than 0.2° C	Better than 0.2° C	Better than 0.2° C	Better than 0.2° C	
Temperature Resolution	0.05° C or better	0.05° C or better	0.05° C or better	0.05° C or better	0.05° C or better	
User Setup	Miscellaneous ways to log data (see Key Features)	Miscellaneous ways to log data (see Key Features)	Miscellaneous ways to log data (see Key Features)	Miscellaneous ways to log data (see Key Features)	Miscellaneous ways to log data (see Key Features)	
Number of log structures allowed	1 (64k version), 3 (128k version)	1 (64k version), 3 (128k version)	3	4	4	
Minimum Life	1 year	1 year	1 year	1 year	1 year	2 year
Expected Life	TBD	TBD	TBD	TBD	TBD	
Data Analysis Software	Yes	Yes	Yes	Yes	Yes	

NOTE: These specifications are subject to change.



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