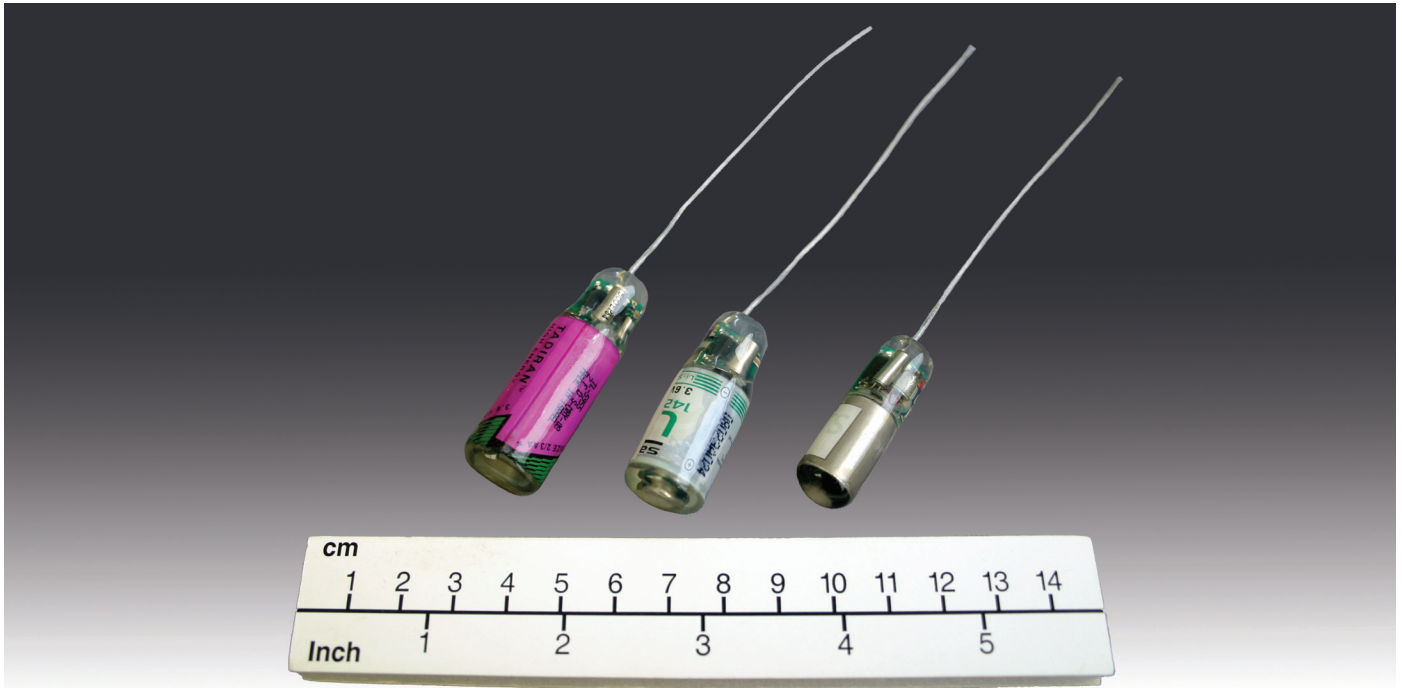


ATS Triton Series F1800 Coded Transmitter

World's Most Reliable Transmitters and Tracking Systems



Triton Series Coded Fish Tags, now with longer life. Compare to Lotek's SR Series coded tags.

In a coded system, many transmitters can share a single frequency. This allows you to differentiate a large number of tags using fewer frequencies, while still detecting fast moving tags, even when they pass by a station at the same time.

Because coded tags consume more power than standard tags, ATS engineers slowed down the tag's pulse rate to maximize life. Our new Triton Series now provide over twice the life of our regular coded models, with no increase in weight. The tags have a slightly longer life than Lotek's SR type of coded tags, for a comparable weight.

Originally developed to accommodate large scale riverine projects in Alaska, ATS' coded systems are now used by fish researchers worldwide. A coded system for fish typically consists of hundreds of tags, and several receive sites, where dataloggers like the ATS R4500CD, or R4520CD Receiver - Datalogger, are installed. This equipment utilizes digital signal processing technology, and so can distinguish the passage of 15 co-located fish sharing a single frequency within 15 seconds, with 100% accuracy. ATS coded systems are known throughout the industry for their extremely low (<2%) rate of false positive "hits."

- Monitor 25 to 100 transmitters using one frequency
- Monitor up to 1,200 transmitters using the ATS R4500CD Receiver
- Slower pulse rate to maximize battery life
- Compare to Lotek SR Series
- Available in all popular attachment styles, and in 30 to 220 MHz frequency ranges
- Programmable for a wide range of mortality and duty cycle requirements

TRANSMITTERS
RECEIVERS
GPS SYSTEMS


ADVANCED TELEMETRY SYSTEMS

ANTENNA SYSTEMS
CODED ID SYSTEMS
CONSULTING

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ATS Triton Series F1800 Coded Tag

ATS Triton Series F1800				Compare to Lotek SR Series		
Model	Battery	12 ppm	30 ppm	Model	12 ppm	30 ppm
F1810C	10-12	215 days	97 days	SR-11-12	180 days	73 days
F1815C	10-18	537 days	242 days	SR-11-18	449 days	183 days
F1820C	10-25	778 days	350 days	SR11-25	641 days	262 days
F1830C	10-35	1074 days	483 days	SR11-35	898 days	367 days
F1835C	1/2 AA	1733 days	693 days	SR-16-25	N/A	588 days
F1840C	2/3 AA	2556 days	1150 days	SR-16-50	N/A	N/A

GENERAL

- Transmitter type: Crystal controlled 2-stage
- Calibration tolerance: ± 2.5 kHz %
- Frequency stability: ± 2.5 kHz, -20°C to 40°C
- Pulse rate and width: Typical pulse train 20, 5, 5 ms (controlled by uC)
- Pulse rate variation: 0.01%/volt, $\pm 0.01\%$ for temperatures -20°C to 40°C
- Battery: Lithium
- Activation: By removing magnet
- Encapsulation: Electrical resin, water-proof, specific gravity: 1.12

ATS Coded Fish Systems

Triton Series Transmitters are used with R4500CD and R4520CD Receiver-Dataloggers. Both feature highly sophisticated digital signal processing techniques to provide accurate and reliable fish passage data.

The receivers are typically located at sites along a river, on a 20 foot tower with two Yagi antennas and an antenna switchbox. A self contained power supply and solar panel allow for continuous monitoring over several months. An ATS remote data platform can be used to automatically send data to your office using cellular or radio communication.

