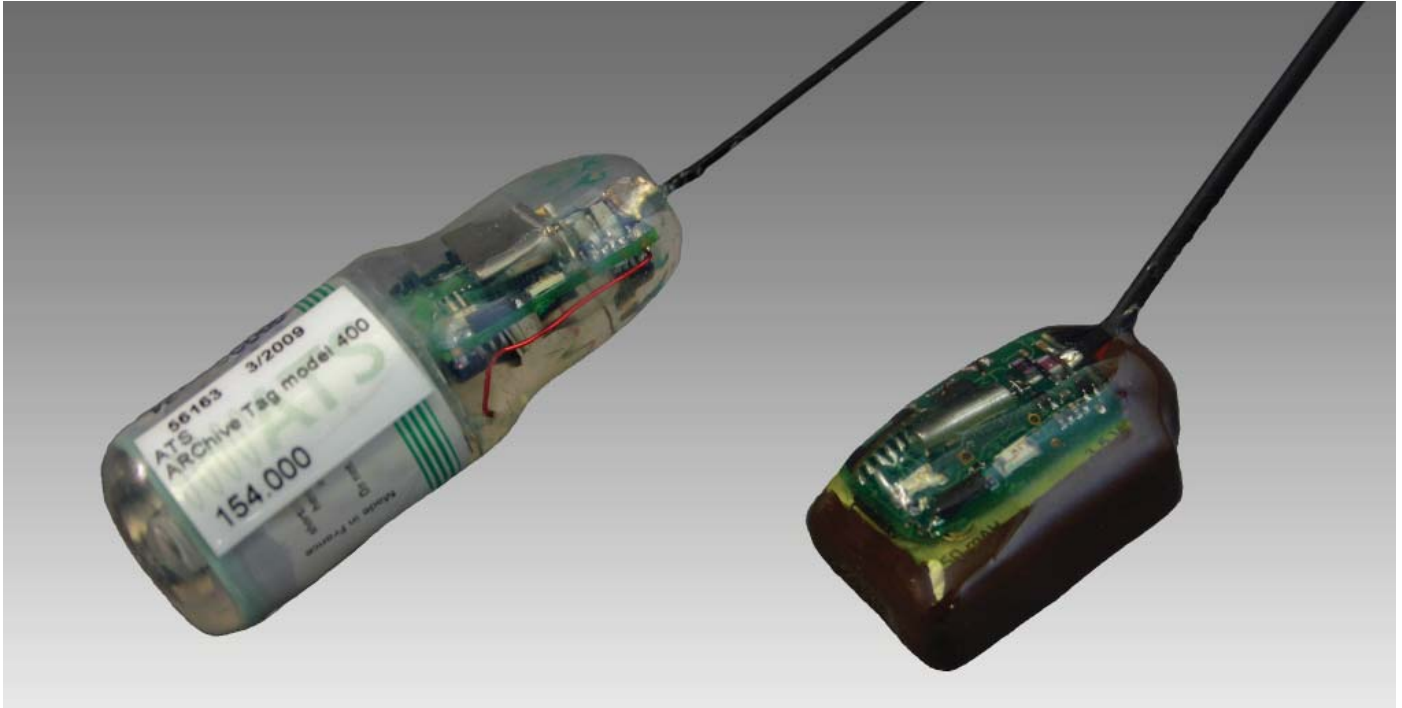


ATS ARChive ARC400 Transmitter Tag

Finding Solutions. Delivering Results.



We can help you find your animal... but what was happening to it in the meantime?

With ATS ARChive transmitters, you are no longer limited to manually tracking, observing, and recording data in the field. Now, you can continuously and automatically collect important habitat and behavioral data over the course of months, or even years.

Many types of research may be undertaken using the ARC400 tag, including those relating to thermal ecology, foraging ecology, energetic requirements from movement data, etc.

Our ARChive tags are pre-programmed and downloaded by ATS. They operate just as a normal tracking transmitter does, but with the added benefit of on-board sensors which can measure and data log temperature and activity information. When it is time to collect data, you need only retrieve the tag and send to ATS to download the data. ATS will pre-program the VHF beacon to transmit at predefined intervals, battery life is conserved, offering long lived operation.

Units will be pre-programmed prior to shipment and downloaded by ATS when study is complete or once the battery expires.



TRANSMITTERS
RECEIVERS
GPS SYSTEMS


ADVANCED TELEMETRY SYSTEMS

ANTENNA SYSTEMS
CODED ID SYSTEMS
CONSULTING

About ATS

Founded in 1981, ATS' mission is to provide researchers and managers in ecology and biology with animal monitoring products and services of the highest quality and reliability.

Our industry-leading expertise and customer service is delivered by customer service representatives who are fisheries and wildlife biologists with extensive field experience in radio tracking and engineers who regularly spend time in the field.

ATS developed the first microprocessor controlled transmitter, we were the first to supply GPS collars to monitor gray wolves, and we set new standards of high sensitivity in receivers.

ATS is proud of our international reputation for quality, service, integrity and an unwavering dedication to our mission and customers.

Custom Systems

ATS designs and manufactures complete systems to meet the unique circumstances and special requirements of most any research project. From our innovative transmitters to custom-engineered receivers, an ATS custom system gets results.

Other ATS Products

ATS telemetry products include: a full line of implantable and attachable transmitters, state-of-the-art receivers and dataloggers, GPS collars, and antennas. Plus, ATS biologists and engineers routinely provide "concept-to-completion" consulting services to assist customers with every aspect of their telemetry-based research.



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ATS ARChive ARC400 Transmitter Tags

SPECIFICATIONS

	Cylindrical Batteries						
Battery Type:	10-18	10-25	10-35	1/2AA	2/3AA	AA	D
Dimensions (mm):	43x19	50x19	70x19	55x19	64x19	80x19	86x38
Weight (grams)*:	13	15	16	21	26	28	115
Life (days)**:	112	162	224	402	533	869	2,252

	Rectangular Batteries	
Battery Type:	7PN	16M
Dimensions (mm):	32x20x15	63x26x15
Weight (grams)*:	14	22
Life (days)**:	239	518

* actual weight may vary dependent on transmitter configuration.

** based on continual hourly measurements, with VHF beacon on 8 hours per day at 55 ppm.

Sensors: Temperature; silicon bandgap-based
Activity; micro-switch

OPERATING RANGE

Available: 0 - 62°C
Accuracy: +/-0.5°C
Resolution: 0.25°C
Operating Temperature: -40°C - 85°C
Memory capacity: Approximately 300,000 data points

ARChive Tag Control Software

GENERAL

- Tag reader commands include: ATS to pre-program and download data at end of study or transmitter life.

SENSORS

- Sensor control: Up to 2 sensors identified and programmable
- Minimum sensor scan/datalog interval: Every 60 seconds
- Maximum sensor scan/datalog interval: Once per calendar year
- Programming schedule: Sensors programmable to collect readings by time of day, calendar day, calendar month

VHF TRANSMITTER

- ATS to program the on and off transmitter pulse times: Always on, on part-time by time of day (on the hour), calendar day, calendar month, or always off
- Pulse rate: Selectable 20 to 255 pulses per minute (ppm)
- Pulse width: Fixed at 20 milli-seconds
- Mortality: Select enable/disable
- Mortality pulse rate: Selectable 0 to 254 ppm
- Mortality inactivity: Selectable 0 to 255 hours, one hour increments
- Coded pulses: Select enable/disable

ORDERING INFORMATION

Specify battery type and VHF frequency range. ATS to pre-program prior to shipment and download data when project is complete or transmitter battery has expired.

WARRANTY

One half of the specified battery life in days, up to one year.