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 user programmable utilizing ATS supplied software. 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 establish wireless communication with a PC device. Because you are able to program the VHF beacon to transmit at predefined intervals, battery life is conserved, offering long lived operation.

No special interface cables are needed since communication with the tag is accomplished using wireless IRDA interface. An optional infrared communication device (IRDA) is available from ATS.
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.

## SPECIFICATIONS

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<thead>
<tr>
<th>Battery Type</th>
<th>Cylindrical Batteries</th>
<th>Cylindrical Batteries</th>
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<tbody>
<tr>
<td>Dimensions (mm):</td>
<td>24x19 29x19 40x19 55x19 64x19 80x19 75x38</td>
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<tr>
<td>Weight (grams)*:</td>
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<tr>
<td>Life (days)**:</td>
<td>112 162 224 402 533 869 2,252</td>
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<thead>
<tr>
<th>Battery Type</th>
<th>Rectangular Batteries</th>
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<tbody>
<tr>
<td>Dimensions (mm):</td>
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<tr>
<td>Weight (grams)*:</td>
<td>14 22</td>
</tr>
<tr>
<td>Life (days)**:</td>
<td>239 518</td>
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</tbody>
</table>
```

* 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

### ACCESSORIES

Optional: IRDA Communication I/F, PN 16421

### ARCHive Tag Control Software

#### GENERAL

- Tag reader commands include:
  - Offload data, erase data, update clock, view tag configuration, edit tag configuration
  - View runtime information including time in run mode, and value of datapointer

#### SENSORS

- Sensor control:
  - Minimum sensor scan/datalog interval:
  - Maximum sensor scan/datalog interval:
  - Programming schedule:

- Up to 2 sensors identified and programmable
- Every 60 seconds
- Once per calendar year
- Sensors programmable to collect readings by time of day, calendar day, calendar month

#### VHF TRANSMITTER

- Software selectable 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
  - Selectable 20 to 255 pulses per minute (ppm)
  - Fixed at 20 milli-seconds
  - Select enable/disable
  - Selectable 0 to 254 ppm
  - Selectable 0 to 255 hours, one hour increments
  - Select enable/disable

### ORDERING INFORMATION

Specify battery type and VHF frequency range.

### WARRANTY

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