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SPOT-F-338 PRODUCT SHEET

SPOT-F tags provide highly accurate locations from tens of milliseconds of surface time. Fastloc® fast-acquisition GPS technology takes a "snapshot" of GPS satellite signals overhead when a tag breaches the water surface.

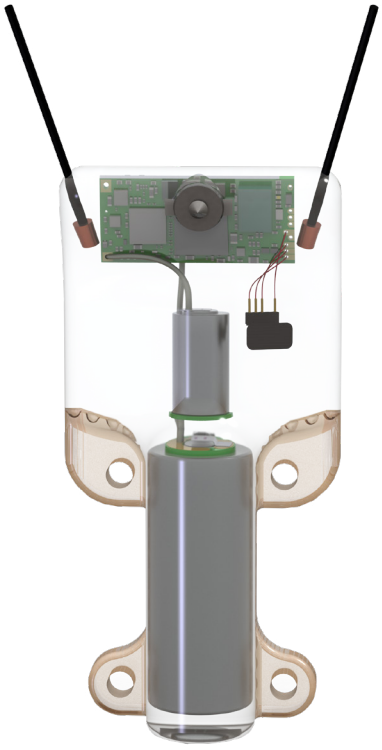
These signals are processed and compressed into a single message containing the satellite ID numbers, their respective pseudo ranges, and a timestamp. This process takes just 12 seconds and continues after the animal has dived. The low-volume satellite information is then relayed back to the researcher via Argos with post-processed data accessible online via the Wildlife Computers Tag Agent Portal.

Transmitted Data

- Fastloc Locations
- Percent-Dry Timelines
- Time-at-Temperature Histograms

Technical Specifications

Dimensions	109 mm x 53 mm x 21 mm
Weight	81 g
Pressure Rating	2000 m
Operating Frequency	401.678 MHz
Sensors	Temperature, Wet/Dry
Temperature Sensor Range	-20° C to 50° C
Temperature Sensor Resolution	0.05° C
Temperature Sensor Accuracy	+/-0.1° C



Wildlife Computers SPOT-F-338

Tag features and specifications subject to change without notice
Antenna length not to scale

SPOT-F-338 Product Sheet – continued

Key Features

Flexible Transmission Schedule

Both the Fastloc® snapshot collection settings and transmission settings are user-customizable. The researcher has the power to decide the quantity and distribution of snapshots and transmissions to attempt each hour of each day. Temporal resolution can be increased during parts of the deployment that are of greatest interest. Conversely, data collection and transmissions can be suspended and battery power saved in times when animal locations are known or when satellite coverage is poor.

Power Savings

SPOT-F tags incorporate a battery-saving transmission regime that helps prolong tag life while optimizing data reception. The new regime decouples short, Argos location messages from longer data-filled messages and implements different strategies for transmitting each. By sending short messages whenever feasible, operating life is extended.

All data messages (including uplinks containing Fastloc® snapshots) are transmitted multiple times and separated in time by at least 40 minutes. This gives the best odds of receiving each individual message.

Recovery Pinger

SPOT-F tags are equipped with a UHF pinger. This optional pinger can be enabled to send out low-power, unmodulated "pings" while the tag is at the surface. Tags and animals can then be located using a directional antenna and receiver.

Value-Added Extras

Wildlife Computers provides not only tracking technology but also attachment equipment and best-practice instructions for proper attachment.

Included with tag purchase is complete access to Wildlife Computers Data Portal. This free data-hosting service includes email alerts, automatic Argos upload, automatic Fastloc® processing, collaboration tools for sharing data, and the ability to create KMZ links for data display purposes.

For more information, visit our website at www.wildlifecomputers.com, send an email to tags@wildlifecomputers.com, or call (425) 881-3048.