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tags@wctags.com
WildlifeComputers.com
+1 (425) 881-3048
8345 154th Ave NE
Redmond, WA, 98052 USA

SURVIVORSHIP PAT (sPAT) POP-UP TAG

The sPAT is used for short-term survivorship studies. Building on the success of our MiniPAT and Mk10-PAT products, the sPAT's suite of sensors monitors the status of the tagged animal. If a mortality/detachment is detected, the tag autonomously releases from its tether and transmits its status through the Argos satellite system. At the end of the deployment period, and if the tag is associated with a living animal, the tag releases from its tether and begins transmitting. The data imports directly to your Wildlife Computers portal account where you can run an analysis and determine survivorship.

Data Products

Daily Data

- The daily minimum and maximum temperature and depth readings from the fast-sampled archive data set
- The change in light level for each UTC day to detect ingestion by a predator

Time Series

- The sPAT tag sends 10 minute time-series depth data **for the five days prior to release**

Pop-Up Location

- When the sPAT floats to the surface, Argos calculates the position of the tag so you know where the animal died, or where it was at the end of the deployment

124 x 38mm (LxØ) and 60g (in air)

Key Features

Economical monitoring of animal survivorship—most survivorship studies require a large sample size to be statistically significant. Built for a single purpose, the sPAT offers a larger number of data points for your budget.

Easy to deploy—the sPAT arrives at your lab configured and ready to auto start when submerged in seawater. This minimizes staff training and costly setup time while reducing the risk of incorrectly programming the tag.

Conditional release and mortality detection—the sPAT monitors for constant depth, a state which implies the tag is floating at the surface or sitting on the sea floor. If constant-depth conditions are met, release is activated. Thus the sPAT transmits even in the event of attachment failure, animal mortality or unexpected animal behavior. This feature minimizes the chance that something will damage the tag between the premature release event and the programmed pop-up date.

Tag price includes pre-assembled tether/anchor system—the tethering system is a crucial component of your tagging study. In addition to reducing your labor commitment, a fully supplied tether system ensures consistency and reliability. We offer multiple tether and anchor combinations.

The portal advantage—the sPAT is supported by the data portal, a collection of data management tools and services. Developed specifically for the display and investigation of data from Wildlife Computers tags, the data portal streamlines the processes of acquiring, preserving, and sharing data services.

Technical Specifications

Dimensions	124 mm (length) x 38 mm (diameter)
Weight in air	60 grams
Depth rating	2000 m
Operating frequency	401.678 MHz
Operating life	Up to 60 days
Attachment type	Towed
Sensors	Light, Depth, Temperature, Wet/Dry
Depth	Range: 1700 m
Resolution	0.5 m
Temperature	Range: -20 to 50° C / Resolution: 0.05° C
Communication	Via USB port using Wildlife Computers USB-Blue Cable