



New Product

Sunbird Solar Argos Transmitters

Technology:  Satellite

Product:  Tag

SIH 130A on Upland sandpiper (*Bartramia longicauda*) © Zachary Pohlen, USFWS, 2021



SIH 130A
(coffee bean for scale)

Solar Argos Transmitters from 2 grams

These compact Argos satellite transmitters enable you to track small birds during their journey. High efficiency solar harvesting and an adaptive transmission protocol maximise the use of the sun's energy. No longer do you need to wait for starling-size migrants to return and then endure the nerve-racking attempts to re-trap them to recover the tags. The data are delivered to you daily*.

Lotek's PinPoint GPS Argos tags have already revealed fantastic migrations with astonishing accuracy on some of the lightest species ever satellite-tracked. Now, the Sunbird Argos transmitter has been developed to reduce tag-weight further, by removing the weight and energy costs of the GPS. Whilst the Sunbird's Argos Doppler locations are less accurate than GPS, the reduced weight makes it suitable for smaller migratory birds. So many new species can now be tracked using our Sunbird tags.

* Provided the tags receive sufficient sunlight, the tags should transmit long enough every day to be received by Argos satellites.

Options

- Standard 10 m depth and marine 200 m depth options available
- Standard and heavy-duty antennas available in two different lengths
- Data Delivery: Lotek Argos Web Service, ArgosWeb, Movebank

Product Applications

Studying the migration of birds too small for units that send GPS data remotely. The solar cell must be kept above the feathers to operate effectively and time spent in shade will reduce the energy harvested. These tags will work best on species that are predominantly out in the open with long and sunny days.

Features:



Position



Solar Powered



Data download
(Satellite)



Temperature

Compact:

Lotek's smallest and lightest Argos transmitters, are one of the smallest available.

Inconspicuous:

Drab coloured body and antenna and non-reflective solar cell.

Rugged Reliability:

Designed with tough, lightweight materials to survive harsh environments including exposure to and immersion in seawater.

Argos Satellite System:

Doppler locations from low power tags with global coverage.

New Product

Model	S1H 130A	S1H 130B
Weight (g)	2.0	2.3
Size (LxWxH) (mm)	27 x 15 x 8	23 x 15 x 8
Life ^[1] (days)	Indefinite	Indefinite
Max depth ^[2] (m)	10	200
Antenna	Standard and Heavy Duty with 18cm and 23cm options.	

1. Tags can operate for an indefinite duration when sufficient solar energy can be harvested and the tags are not subjected to excessive wear and tear.
2. All tags are pressure tested.

Features and specifications subject to change without notice.

Technical Specifications:

Operating temperature range (°C): -10 to 60
 High efficiency solar harvester.
 Stainless steel stranded antenna

Standard Sensors:

Temperature
 Transmit current
 Battery voltage
 Solar charge current

Warranty

Contact one of our telemetry specialists for details about our warranty. For Warranty terms and conditions, please review our [Warranty Statement](#).