



Sunbird Solar Argos Transmitters

Technology:  Satellite

Product:  Tag

S1H 130A on Upland sandpiper (*Bartramia longicauda*) © Zachary Pohlen, USFWS, 2021



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*.

Now available with two solar panels, the additional solar area of the S1H 230A is able to absorb more sunlight, allowing the tag to recharge more quickly. Additionally, the extra battery capacity means it will last longer without charging, providing improved performance when daylight is short or birds spend less time in direct sunlight.

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

Options

- Max Depth 100m
- Data Delivery: Lotek Argos Web Service, ArgosWeb

Features:



Temperature



Position



Data download
(Satellite)



Solar Assist

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(s).

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.

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.



Model	SIH 130A	SIH 130C	SIH 230A
Weight ^[1] (g)	2.0	3.0	3.5
Application	Small-sized birds in dry environments	Medium-sized birds, including divers	Medium-sized birds in dry environments
Size (LxWxH) (mm)	27 x 15 x 8	27 x 15 x 8	37 x 15 x 10
Life ^[2] (days)	Indefinite	Indefinite	Indefinite
Max depth (m)	10	100	10
Antenna (cm)	23	23	23
Solar Panels	1	1	2

1. Weight may vary +/- 10%, and more for variations in antenna gauge and angle or attachment tubes.
2. 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.

Features and specifications subject to change without notice.



SIH 130A



SIH 230A

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](#).

