




Technology:  Satellite

Product:  Tag

Kemp's ridley sea turtle (*Lepidochelys kempii*) © National Park Service 2016



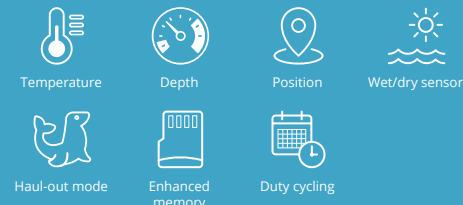
GPS Argos transmitters for a wide range of applications

FastGPS is fast acquisition GPS technology designed for marine animals which only surface briefly. Raw locations and basic dive data are then relayed back to the researcher via the Argos satellite system. Unique FastGPS technology enables a snapshot of GPS signals to be taken in a fraction of a second compared to conventional GPS which can take tens of seconds. FastGPS raw data is automatically post-processed and can be viewed and downloaded via a secure web portal.

Options

- Sat-Data options include:
 - DepthTemp: Depth + temperature time series, or
 - Dive:
 - Dive Summary: % time wet, Daily maximum depth
 - Individual dive: Dive duration, Maximum depth, Time At Depth index
 - Time at depth histogram
- Sensors: Pressure, External temperature and Wet/dry
- Flexible scheduling for Argos transmit interval and FastGPS sample rates.
- Haul-out mode
- Enhanced memory

Features:



Accurate positions transmitted via Argos:

Near GPS quality accuracy captured in a fraction of a second.

Data management:

Location data automatically processed and accessed via the Lotek Argos Web Service

Rugged packaging:

Rugged hydrodynamic package designs for depths up to 2000m.

Enhanced memory:

Applicable to sensor-equipped models.

Product Applications

Models available for shark, pinniped and marine turtle applications where there is little or no chance of recovering the tag to retrieve the data.



Model	Weight (g)		Estimated Life ^[2] (days)			Size (LxWxH) (mm)	Depth (m)	Enhanced memory option	Heavy Duty
	in air	in water ^[1]	Standard	DIVE ^[3]	Depth/Temp ^[4]				
F6G 173A	51	<10.4	111	188	134	105 x 21 x 18	200	Yes	No
F6F 176D	65	-1.6	157	267	189	96 x 19 x 80	1000	Yes	No
F6G 276G	150	TBA	308	416	315	99 x 46.5 x 27	1000	Yes	No
F6G 276H	148	44	308	416	315	101 x 46.5 x 32	2000	Yes	Yes
F6G 376B	240	93.6	463	624	473	115 x 64 x 44	2000	Yes	Yes
F6G 676B	435	TBA	926	1248	946	140 x 64 x 62	2000	Yes	Yes

1. Assuming the density of seawater is 1024 kg/m³
2. Estimated life calculated with hourly FastGPS locations and a daily limit of 200 Argos transmissions.
3. DIVE life estimates based on cycles of fix/individual dive/depth histogram/fix/individual dive/dive summary.
4. Depth/Temp life estimates based on cycles of fix/DepthTemp alternating.



Transmitter Specifications

Argos transmit power: 500mW
 Operating temperature range: - 20 °C to 50 °C

Memory Specifications

Size: 64GB
 Stored Sensors: Temperature, Depth, Salinity Index
 Sample interval: 1s, 2s, 4s

Standard Sensors

Wet/dry sensor

Optional Sensors Specifications

Temperature sensor range: -40 °C to 60 °C
 Temperature sensor accuracy: ±0.2 °C
 Temperature sensor resolution: better than 0.05 °C
 Calibrated sensor range: -5 °C to 40 °C
 Depth sensor ranges: 200m, 500m, 2000m
 Depth sensor accuracy: ±1% of Full Scale
 Depth sensor resolution: ~0.025% of Full Scale

Warranty

FastGPS Argos tags are warranted to be free of defects in materials and workmanship under Normal Use for a duration of 80% of Estimated Life to a Maximum of 12 months.

For Warranty terms and conditions, please review our [Warranty Statement](#).

