



FastGPS Argos Series

Technology:  Satellite

Product:  Tag

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



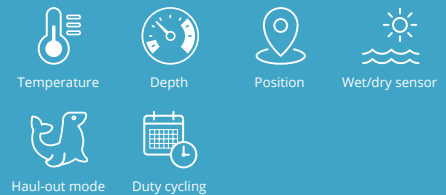
The FastGPS F6 series are Argos linked FastGPS tags for a wide range of applications

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

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.

On-board 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	Heavy Duty
	in air	in water ^[1]	Standard	DIVE	Depth/Temp				
F6G 173A	51	<10.4	111	152	TBA	105 x 21 x 18	200	Yes	No
F6F 176D	65	-1.6	157	216	TBA	96 x 19 x 80	1000	No	No
F6G 276G	150	TBA	308	419	TBA	99 x 46.5 x 27	1000	No	No
F6G 276H	158	TBA	308	419	TBA	101 x 46.5 x 32	2000	No	Yes
F6G 376B	240	93.6	463	629	TBA	115 x 64 x 44	2000	No	Yes
F6G 676B	420	TBA	926	1259	TBA	140 x 64 x 62	2000	No	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.

Features and specifications subject to change without notice.



Technical specifications:

Argos transmit power: 500mW

Operating temperature range: - 20 °C to 50 °C

Standard sensors:

Wet/dry sensor

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 warrantied 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](#).

