



AVIAN



TERRESTRIAL



MARINE



FRESHWATER

F6G 134 Series

Technology: Satellite
Product: Tag

Orca (*Orcinus orca*) © Miller Lab, U of St Andrews. 2022



F6G 134D (2mm grid size)

Integrated Argos linked FastGPS for payload recovery

FastGPS is fast acquisition GPS technology designed for marine animals that only surface briefly. Unique FastGPS technology enables a snapshot of GPS signals to be taken in a fraction of a second compared to conventional GPS that can take tens of seconds. Raw locations are then relayed back to the researcher via the Argos satellite system.

Argos messages are automatically retrieved by a secure web server and stored in a secure cloud database. The FastGPS raw data is automatically post-processed and can be viewed and downloaded via the secure web service.

Options

- Matching VHF component (V7G 149) for redundant tracking system.
- Realtime tracking software allowing the real time processing of goniometer recorded data.

Product Features

Integrated FastGPS and Argos system that does not experience conflicts between the two technologies. Electronics encapsulated directly in low density syntactic foam so as to minimize weight and size.

Product Applications

For short term monitoring of various species, predominantly cetaceans, in which the F6G 134 (and optionally the V7G 149) are physically integrated with/attached to a user payload (DTAG, Acousonde, etc.).

Features:



Accurate positions transmitted via Argos:

Near GPS quality accuracy captured in a fraction of a second

Data processing:

Location data automatically process and accessed via the web service or PC software

Rugged packaging:

Rugged hydrodynamic package designs for depths up to 2000m.

Rechargeable batteries:

Reuse up to 100 times.



Model	F6G 134D	F6G 134C	V7G 149A
Weight (g)	28	54	30
Buoyancy (g)	+12	TBD	+14
Life ^[1] (days)	2	2	N/A
Life ^[2] (days)	N/A	N/A	158
Size (LxWxH) (mm)	59 x 60 x 21	TBD	65 x 65 x 19
Max depth (m)	2000	2000	2000

1. Based on a FastGPS fix rate of every 2 minutes (history of 1) and an Argos transmission interval of every 60 seconds, 24/7.
2. Based on a transmission rate of 40 BPM continuously when magnet is removed.

Features and specifications subject to change without notice.



F6G 134D



F6G 134C



V7G 149A

Technical specifications:

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

Argos transmit power: 500mW

Buoyancy: positive

Depth rating: 2000m

Estimated number of recharges: 100

of hours to recharge from flat: 1

Real-time tracking software computer requirements: TBD

Standard sensors: Wet/dry sensor

Warranty

FastGPS 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](#).

Accessories

Compatible with the CLS Goniometer [RXG-234](#)

