v.23-07

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TDR10 PRODUCT SHEET

Wildlife Computers Time-Depth Recorders (TDR) are data-archiving tags designed for tracking fine-scale movements of marine animals.

A TDR10 is a cost-effective tag that works best on animals that can be captured twice such as pinnipeds, sea turtles, and penguins.

The TDR10 tags come in a variety of shapes with a variety of sensor options for gathering sample data including depth, temperature, light, wet/dry, acceleration, and stomach temperature (using the stomach temperature pill linked to a TDR). TDR10 tags can also come equipped with Fastloc® GPS. Fastloc acquires highly accurate locations in under a second.

Key Benefits of TDR10 Tags:

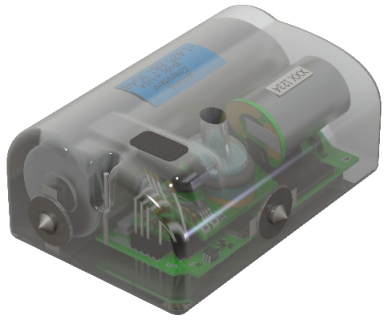
- Fine-scale, high-resolution sample data—the data from a recovered TDR10 is recorded and downloaded at the highest resolution possible.
- High-sample rates—sensor channels can be sampled as fast as 32 Hz.
- Best possible digital resolution—each sensor sample is stored at the maximum possible resolution.
- Most complete data set—a recovered TDR10 will provide a complete dataset with no risk of data gaps.

Key Benefits of Fastloc GPS:

- Highly accurate—to 20 m with optimal satellite coverage.
- Fast acquisition—even after prolonged sleep, a location can be acquired in a fraction of a second. Very little surface exposure is needed.
- All acquired GPS snapshots are stored for validation post-download.
- Flexible scheduling—fixes can be scheduled at regular intervals or duty cycled depending on day or season.
- Many locations possible—hundreds achievable per day for a higher resolution track.

Available Data Products

	TDR10-F	TDR10-X	TDR10-FX	TDR10-BX	TDR10-LX
Depth Archive	X	X	X		X
Temperature Archive	X	X	X	X	X
Light Archive	X	X	X		X
Wet/Dry Archive	X	X	X	X	X
Acceleration 3-Axis Archive		X	X	X	X
Stomach Temperature Archive					X
Fastloc Archive	X		X		



Model: TDR10-X-340 /TDR10-BX-340

Model: TDR10-F-393

This is a small representation of our available tags.
Tag features and specifications subject to change without notice.

TDR10 – CONTINUED

RECOVERY OPTIONS FOR TDR TAGS

Payload Recovery Device—a great way to recover data with minimal effort and disturbance. From over 200 m away, the Payload Recovery Device will detach from the animal with a radio command.

Float Packages—if you cannot recapture your animal another option is to attach the TDR10 to a float package that will release from the animal and then recovered. For example, a suction cup attachment on a cetacean. A SPOT tag, like our Asset Recovery tag, can be used to assist in finding the float package.

Asset Recovery Tag—A SPOT tag can be attached to the animal in order to locate it, recapture it, and recover the TDR10. This tag can also be incorporated into a float package that holds the TDR10.

TECHNICAL SPECIFICATIONS

Attachment Type	Externally mounted***
Sensors	Depth, Temperature, Light-level, Wet/Dry, 3D Accelerometer, Stomach Temperature, Fastloc GPS***
Depth Sensor Range	0-1700 m, 0-2000 m***
Depth Sensor Resolution	0.5 m, 1 m***
Depth Sensor Accuracy	±1% of reading
Temperature Sensor Range	-40 °C to 60 °C
Temperature Sensor Resolution	0.05 °C
Temperature Sensor Accuracy	± 0.1 °C
Light Sensor (When Installed)	5×10^{-12} W cm^{-2} to 5×10^{-2} W cm^{-2}
3D Accelerometer Range	± 2g
3D Accelerometer Resolution	0.05 m^{-2}
Stomach Temperature Resolution	± 0.1 °C
Stomach Temperature Accuracy	± 0.3 °C
Maximum Sampling Rate	32 Hz
Pressure Rating (m)	Up to 2000 m
Operating Temperature Rating (°C)	-20 °C to 50 °C
Recommended Storage Temperature Range (°C)	-20 °C to 5 °C
Conductivity Operational Limits	0.1 S m^{-1} to 5 S m^{-1}
Memory	1 GB
Length, Width, Height, Weight, Wet/Dry Sensor, Maximum Deployment Length	***

*** *Specification is dependent upon the configuration model. You can see different TDR10 configurations on WildlifeComputers.com*

To Learn More Call: **+1 (425) 881-3048** or Email: **tags@wildlifecomputers.com**

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