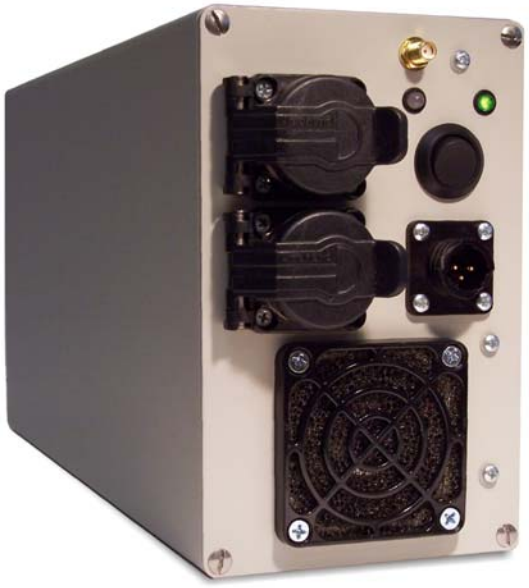
MODEL 295-G ACOUSTIC TAG DATA LOGGER



HTI's *Model 295-G Acoustic Tag Data Logger (ATDL)* offers a cost-effective means of remotely recording the satellite time-stamped presence of fish tagged with *Model 795 Acoustic Tags*. The "G" stands for GPS integration. With GPS Sync files can be easily merged and appended. Merged data can then be processed in one application, which simplifies data comparison. Encapsulated in a rugged case, it operates at depths of up to 300 meters (984 ft). Two additional models are available:

Model 295-B Acoustic Tag Data Logger a self-contained, solar-powered data logger with wireless data transmission in a buoy-based system.
Model 295-I Acoustic Tag Data Logger works as a shore-based solution for recording the presence of fish.

Model 295-G Acoustic Tag Data Logger:

- New GPS Sync Echoes automatically time stamps all files to satellite time and allows for easy synchronization of multiple data loggers.
- Compact, light, portable, and self-contained (self-power generation wave or solar options).
- Detection ranges up to 1 km (3,280 ft).
- Wireless network capability allows for all receiver settings and data display to be viewed modified, uploaded or downloaded to your computer wherever you are in the world.
- Merge multiple data files for data comparisons and simplified file management.
- Three options to store data include locally, USB disk, and remote storage (network).
- Will operate in tandem with *Model 290/291 Acoustic Tag Tracking Receivers.*
- Individual tag identification, with up to 100,000 unique codes.

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MODEL 295-G ACOUSTIC TAG DATA LOGGER

Dimensions:	305 mm long x 165 mm tall x 108 mm wide, (12" long x 6.5" tall x 4.25" wide), plus connectors on ends.
Weight:	2.5 kg (5.5 lb)
Power Supply:	13.0 +/- 1.5 V @ ~ 0.8 A nom. Also can be solar or wave powered with a deep-cycle battery. We recommend that the solar panel or wave power source be capable of generating at least 20 watts for all expected environmental conditions.
Operating Temp.:	0-50°C (32-122°F)
Power Consumption:	Approximately 9 watts
Batteries:	Recommend deep cycle 12 VDC battery. Life = battery amp hours (e.g., 180 amp hour battery will last approximately 180 hours).
Data Displays:	Using HTI *AcousticTag* software, real-time data can be viewed for in-field adjustments. HTI *MarkTags* software is used for post viewing and analysis.
Computer Req.:	Contact HTI for current minimum specs.
Frequency:	307 kHz standard
Ext. Bx Connector Cable:	50 to 150 ft long
Computer Req.:	Contact HTI for computer specs. All specifications subject to change without notice.

FEATURE	ADVANTAGE	BENEFIT
GPS Synchronization	1.) Precise time stamps via exact satellite time. 2.) Can combine multiple files to see beyond hourly boundaries.	Synchronizes time among multiple receivers so that data can all be merged into one file and analyzed as a single system. Absolutely eliminates any clock drift. Simplifies analysis - no time verification is necessary. GPS Sync allows files to be easily merged and appended. Merged data can then be processed in one application and easily compared (*MarkTags Software*), which also simplifies data comparison.
Wireless Capabilities	Each receiver has its own processor (CPU) inside and its data can be viewed from a remote site at any PC in its network.	All receiver settings and data display can be viewed, modified, uploaded or download to a PC anywhere in the world (i.e. your office). Continuous remote monitoring of fish activity. In situ settings adjustments can be made remotely by adjusting data in real-time via wireless network.
USB Configured	High speed data download.	Saves time and the cost of time to the project's budget.
Expanded Memory Options	1. Local data storage. 2. External USB disk. 3. Remote data storage.	Save a complete season's worth of data in one CF Flash disk, which can run from 1.0 GB to 8.0 GB. An external USB disk allows for "plug and play" storage swaps as needed. Remote data storage (used by USGS along the west coast) travels wirelessly to a user-defined computer data at the top of every hour.
Enhanced Detection Algorithm	Any "colliding" transmissions can be detected and decoded.	More detections and valid data. For example, tag encoding offers five unique options to enhance coding ability based on environmental factors.
Improved Settings/Configuration Sections	Section for saving configuration files with acquisition settings.	A time saver that allows the user to assign the same data collection parameters to multiple data loggers.
Optimized Filters	Particular codes or code combinations cab be selectively displayed or disregarded.	Choose and select which tags of interest you want to view.
New Power Options	The *Model 295-G* is capable of generating its own power via an optional propeller system on the back or a solar panel system.	Has the option of being totally autonomous, requiring no power from outside sources. This feature is significant in time and money as it reduces the amount of cable needed on a project, which saves thousands of dollars in cable and cable maintenance.
Improved I/O Box	Lighter than the *Model 295-I*, its simple design includes built-in fan and ventilation	The self-contained unit eliminates concern for processor temperature and has improved portability.
Remote Power Monitoring	Datalogger software now displays current voltage level of the connected power source.	Researchers can know the power status of any and all data loggers from remote locations.
Future Impending Developments	Currently, the Model 295-G is an effective and efficient tool for presence/absence studies, however, more progress is on the horizon.	Future developments will include the option for multiple receivers to achieve 3D tracking in submeter resolution.