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# XL Series Supplement Notes For Version 2.14

**Note:** A new manual is now available on line at [www.waterlog.com](http://www.waterlog.com) this includes the changes for version 2.14.

## Summary of Major Changes

This document discusses the changes of the XL Series data logger that were added in version 2.14. The XL Series of data loggers includes the following products.

|           |   |
|-----------|---|
| H-500XL   | Basic XL Series data logger.  |
| H-350XL   | Basic XL Series data logger with built in pressure transducer.                                    |
| H-510XL   | Basic XL Series data logger with built in shaft encoder.  |
| H-522Plus | Basic XL Series data logger with built in GOES HDR transmitter.                                   |
| H-522     | Basic XL Series data logger with built in GOES HDR transmitter, but no built in keypad / display. |

The main changes for version 2.14 were basically 'clean up' issues. Only a few new options were added. Most new options were mainly expanding existing options. Some of the following changes were made in version 2.13. Version 2.13 was released and then pulled to add some additional checks to the new options. If using version 2.13, we recommend updating to this version at your convenience.

The main changes are outlined below for version 2.14.

- 1 - The ALERT Delta Trigger Mode was fixed.
- 2 - Added selectable formats for GOES self timed binary data.  
Options are 1 to 4 bytes, 0 to 4 digits, and polarity.
- 3 - Changed file selection to list up to 150 files.
- 4 - Speed up serial port character handling so incoming data is processed quicker. This is important for systems programmed to automatically send commands and get responses in return. Also helps with higher baud rates.
- 5 - Now setting DATA TYPE bit properly for Pseudo Binary GOES data.
- 6 - When using the "View Current Data" option on the built in display, the left and right arrows no longer move one character at a time. Now the left and right arrow keys move 9 characters on a single key press which caused the data to be shifted one column in the data file.
- 7 - Added a pre scan offset time option. This option is used to start the scan process a few seconds to a few minutes early. The time stamp in the data file is not affected by this offset time.

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- 8 - Added code to SDI-12 section to use the last measured value if sensor failed to respond. This is useful when using the SDI-12 radios and the reception is questionable.
- 9 - Added a timeout to the break detect so if the line is stuck high it will not cause the unit to lock up. This would happen at time with some water quality sensors that could be programmed for several different modes of operation.
- 10 - Added a mode to disable the SDI-12 sensor mode by setting the first SDI-12 parameter to 'NONE' in the SDI-12 sensor mode setup menu.
- 11 - Changed default counter mode to 'Count Only'.
- 12 - Changed default analog sample times from 2000 to 500.
- 13 - Added an option to select a rate to update the voice modem. This allows for a fast scan rate so some options can be updated quickly, yet the modem updated at a slower rate.
- 14 - Added option to copy individual files from the built in keypad / display menu.
- 15 - Added option to purge every scan and once an hour.
  - Timed Purge = 95, Purge every scan (15 minute scan rate or slower).
  - Timed Purge = 96, Purge every hour (scan rate at one hour or faster).

**NOTE:** After updating a unit look over the user options to make sure they look normal. Since newer versions of firmware will have new, deleted and changed options, a configuration file generated by an older version may not load 100% as expected.