AMOD AGL3080 Data Logger

There are 2 buttons on the Data Logger (DL). They are POWER and MARK. The POWER button looks like the power symbol on a computer and the MARK button look like a flag. In order to change the batteries, slide the tab on the back away from the cover. Don't pull on the tab or it will break.

BASIC OPERATION:

1. Press POWER button.
2. Wait for device to synchronize. This works better if you turn the device on outside. While the device is synching, the green satellite LED will be ON, once the device is synched the LED will be FLASHING.
3. Once synchronized, press the MARK button to record GPS data. The red LED (stacks of paper) will flash once.

PHOTO LOGGING:

1. Ensure that your camera is set to the same time as your laptop.
2. Take a picture.
3. Press the MARK button as soon as possible after taking the photo.
4. Repeat 2-3 until you have all the pictures you need.
5. Install the software included with the DL (Photo Tracker Software).
6. Upload pictures from your camera to your computer.
7. Plug DL into computer with included cable.

8. Import GPS log, the DL will be a new letter drive on your laptop, just like a thumbdrive
9. Import photos. The software will automatically link the pictures.
10. Save Photos with GPS Data.

ADVANCED OPERATION:

In order to change the recording mode from "push-to-mark" to auto-recording, some initial set up must occur.

1. Enter set-up mode by making sure the device is OFF and holding POWER and MARK for 5 seconds until all three LEDs are ON and not flashing.
2. Press the MARK button to cycle through various modes. See table below for indicator key. For the purposes of the project I recommend Modes 2-5 based on what kind of data you need and for how long.
3. Wait 5 seconds and turn the device off. The device remembers its last mode. To return to default, hold both buttons for 10 seconds. This will also clear the memory.

Mode	Indicator Lights	Output Format	Minimum Records	Minimum Hours
1	Memory Full ON	GGA/GSA/RMC/VTG - 1 Sec GSV - 5 sec	260,000	72
2	Memory Full FLASH	Only RMC - 1 Sec	1,040,000	288
3	Satellite ON	GGA/GSA/RMC/VTG - 5 Sec	260,000	360
4	Satellite FLASH	Only RMC - 5 Sec	1,040,000	1440
5	Battery ON	GGA/GSA/RMC/VTG - 10 Sec	260,000	720
6	Battery FLASH	Only RMC - 10 Sec	1,040,000	2880

DEFINITIONS OF OUTPUT FORMAT:

GGA – Essential Fix Information (3D location and accuracy data)
GSA – Data regarding quality of fix (signal strength, # of satellites, etc)
GSV – Satellites in View (very detailed information about the satellites)
RMC – Recommended Minimum (basic lat/long info, time)
VTG – Velocity data (good for routes and tracks)

4. Power on the device and wait for the satellite to synch (see BASIC OPERATION)
5. Once the device is synched, it will begin taking data and saving it as a track. Default, there will be no waypoints or data points selected as special.
6. Press MARK to create a waypoint. It will not interrupt the track, and will show up as a pin-point in GoogleEarth or similar programs.
7. At the end of your track, power device off.

8. Plug device into computer. The log will be named after the GMT time of the first data point.
9. Follow the instructions for GPS Babel.