HGC logger

The club owns a logger that is intended to be used in the Junior. It is portable and can be used in other aircraft if not required in the Junior. Technically speaking it is a "Position Recorder" which means it is considerably cheaper than a fully-featured "Flight Recorder". As a position recorder it has two restrictions which users should be aware of:

- It is not authorised for Diamond badge flights or records(!)
- You need to allow an extra 100m (329') for height calculations

This document provides brief operating instructions which should be adequate for most purposes. Full operating instructions are available on the internet here:
http://www.flywithce.com/download/flyWithCEFlightRecorder.pdf
This logger should be straightforward to use; however like anything new you do need to learn how to use it!

Why use a logger

If you want to claim a BGA or FAI badge for your flight or enter it on the Club or National ladder you have to present supporting evidence. A logger provides this evidence by continuously and securely recording your position and altitude using a built-in GPS. Software on your smart phone that apparently has the same function doesn't offer the same level of security and is not acceptable as evidence.

The Logger

It is a **flyWithCE FR300** serial number **01-1787**. You will need to quote this information on your Flight Declaration and on any badge claim that you make using evidence from the FR300. It is a small black plastic object rather like a USB data stick. It is attached to a bright pink purse to make it less likely that it will get lost – please don't detach it. It should be kept in the Portakabin when not in use. The club also owns a bright pink USB charger to be kept in the Portakabin.

Brief Technical details

The FR300 comprises a battery, some memory, a GPS, a microprocessor, an on/off switch, an event marker button and some LED lights. When operating it records its position including GPS derived altitude at regular frequent intervals. The recording can by downloaded to a PC using the supplied program flyWithCE Logbook. Provided the PC is connected to the internet the program will "sign" the recording. This ensures that the recording is secure and any tampering can be detected.

Operation

You should check that the FR300 is fully charged before use. Charging takes up to about 2 hours. During charging the device should be switched off. The green light will be on while recharging. When the battery is fully charged the green light will switch off. When fully charged it should run for at least 10 hours.

You should ensure that there is sufficient memory to record your flight. The memory is sufficient to record 71 hours of flight at a recording rate of once per second. To check memory usage switch the FR300 on and plug it into a USB port on the PC then run flyWithCE Logbook. Click "Connect" to connect the FR300 to the program. Click on "Options…" on the "File" menu and the click on the "Recorder" tab. If there is insufficient space you can click on "Erase" to erase all previous flights. Do not click on "Erase" if there are any flights on the recorder that may be needed that have not yet been saved on the PC.

It is possible to enter a flight declaration into the FR300; however such a declaration is not valid for badge flights – you should always make a paper declaration before attempting a badge flight. The blank forms provided in the Portakabin will prompt you to enter all the necessary information. Refer to the FAI sporting code and flyWithCE Logbook for more information. You will need an Official Observer to sign the declaration before take-off.

You are now ready to go to the glider with the FR300. Switch it on before placing it in the glider. When the blue LED is on and steady the device is acquiring the GPS position. When the blue LED is flashing it is recording. After you finish your flight switch off the FR300 to stop recording.