# Flytec Balloon 6040

## Firmware release notes

### V 3.08b (2021-06-25)

- Fix a bug where in some cases the display of the pilot name in the menu and in the IGC files was overwritten (introduced with 3.08a).

### V 3.08a (2021-06-20)

- Fix GPS reception loss after 1-3 hours, caused by a bug in the GPS module software (IT430 and SE880).
- Reduce storage to a maximum of 10 routes (was 20) and 20 turnpoints per route (was 30).

### V 3.07a (2020-06-12)

- Improved TT34 reception, filtering out incorrect transmissions.

### V 3.06c (2020-03-12)

- Recognize Telit Jupiter SE880 GPS module.
- Improved recovery from GPS reception loss.
- Improved protection from installing software for another device from the same family.
- Fixed bug where wrong file names could show up in SD card file lists.

### V 3.06b (2019-06-11)

- Fix a bug in flight recording that could lead to the IGC file missing entries when GPS reception was bad or absent.
- Improved battery charge curves, for more accurate battery charge indication.
- New battery option: Eneloop Pro 2500 mAh rechargeable batteries.

### V 3.05c (2019-03-29)

- Fix a bug in GPS date rollover handling that could lead to date being moved to 2038.
- When showing waypoints and airspace files on SD card, suppress new OS X system files.

### V 3.05b (2019-03-18)

- In rare cases, the screen appears rotated by 90° after an update, and with very low contrast. Now the screen can be correctly aligned again with the key combination "Arrow right" and "Arrow down" directly after switching on, during the language confirmation.

### V 3.05a (2019-03-03)

- Corrects effects of GPS date rollover, vario gives correct dates until at least 2038

### V 3.04b (2019-01-16)

This update will delete all waypoints and routes from the vario. Make sure you save them to the SD card or your computer before updating.

- IGC date no longer wrong for flights where launch is between 0:00 and 0:05 UTC
- Allow routes and waypoints to be called "A" again
- IGC file: update date field name to correspond with 2016 IGC file specification
- Fix bug where in some cases the first position recorded in the IGC file was completely wrong
- New Bluetooth NMEA mode 5 (Ozi Explorer), which alternates between GPRMC and GPGGA

### V 3.03d (2018-03-29)

- Data field FL: align right
- Remove Umlaut characters from German menus
- Correct formatting of TT34 serial number
- Correct distance shown while editing race route

### V 3.03c (2018-02-15)

- Fix a bug where in some cases the display became illegible after the update

### V 3.03b (2018-02-02)

- Renamed "Vario settings" menu point to "Device settings"

### V 3.03a (2018-01-23)

This update will delete all waypoints and routes from the vario. Make sure you save them to the SD card or your computer before updating.

- Cleaner start-up and shut-down screens
- Updated, unified texts for menus and settings throughout whole 6000 vario family
- The link the an FAF airspace file on the SD card is removed whenever airspaces are uploaded from the computer, or when airspaces are deleted through the menu
- All numeric values (e.g. cylinder radius) can be increased / decreased rapidly with the right / left arrow keys, and slower, for finer settings, with the up / down arrow keys
- Distances in routes are shown with one decimal
- Range of vane wheel correction: 50 % to 150 %
- In the IGC file, the "takeoff" and "landing" C-records are now set according to the specification

### V 3.02a (2018-01-04)

- Bug fix, uploading airspaces no longer leads to re-initialization with wrong values (e.g. serial number 500)

### V 3.01a (2017-10-27)

- Improve data reception from TT34, filter unrealistic values
- Clean up start-up screen

### V 3.00a (2017-08-09)

- Correcting base configuration for varios with serial number 6649 and higher
- Data fields: corrected some field names
- Data field "FL (ft)" renamed to "Alt FL", now 3 digits, in hecto-feet according to standard

### V 2.07i from 30/10/2013

**Attention!** With version 2.07b the flight memory will be deleted, since a new flight memory organization was needed. Furthermore, it is a log file will be written on SD card to track possible

errors better. We therefore recommend operating the instrument only with an SD card from version 2.07 on.

- Bugfixes and improvements in temperature warning
- Wrong TT34 SN. The detection has been improved.
- ? - ? Now also in large data fields.
- Airspaces from SD card. So *.faf file format from Flyland or OpenAir data from around the world can be loaded directly to the SD card with all the additional information. The instrument takes the nearest 100 air spaces for the calculation of the approximation warnings.
- New flight memory organization. This means that all flights will be deleted in the flight memory with this update.
- External RAM used now
- Revision CTR / error page
- Log file with status and error messages on the SD card
- Recognition of the new GPS module IT430 .
- Settings can be saved to SD card and read back again .

## V 2.06i from 22/11/2012

- Storing a new TT34 ID with F2 key. This is the automatic search function for the TT34
- Doubling the clock frequency with different timing adjustments
- Bug fix of suddenly occurring altitude jumps (whine of the Vario).

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## V 2.06 from 25/02/2011

- New: Rise acoustic. It can be switched on or off in -> Main Setup Menu -> Settings -> Variometer -> Customize sound -> Rise acoustic -> Yes/No.
- New NMEA sentence $FLYSEN via Bluetooth. All internal sensor values can be read out and used in computer navigation programs as well as in automatic burner controls.

## V 2.05z from 18/8/2010

- Initialization for new lot Fastrax changed

## V 2.05y from 8/6/2010

- Bugfix freezing of display during NMEA Output via Bluetooth

## 2.05x from 26/4/2010

- New Menu SD-Card
- Export of flights on SD Card. The SD Card must be formatted with FAT or FAT 16. Therefore maximum size is 2GB.
- Export and import of waypoints and routes on SD card in format *.gpx.

## V 2.05w2 from 7/1/2010

- Bugfix NMEA via Bluetooth. Freezing after pairing fixed.
- Temperature alarm minimum from 70°C reduced to 40°C

## V 2.05t from 11/11/2009

- Info page in the vario and windlayer screen lists the pending alarms, the info page in the map screen lists the nearest CTR's

- Bugfix in the CTR list. Wrong CTRs in the list (far away but with distance 0) could be eliminated.
- Bearing arrow bigger
- New handling of the compass rose.
  Empty compass rose with active bearing arrow showing towards up direction in case of no GPS reception. The bearing arrow should show, that a waypoint or route is active.
  Compass rose north up and active bearing also north up in case of GPS speed below 3 km/h.
- The second and third CTR in the list would be checked every 20 s and 40 s. All other CTR are checked one after each other, one per second.
- CTR acoustic Alarm active/not active. After the firmware update the CTR acoustic alarm is switched off by default. You can set it with *-> Main Setup Menu -> Pilot settings -> CTR acoustic Alarm*
- GPS-Module Type in Startup screen
- Automatic switch off if the instrument has no flight recognition after 30 min. or if the flight analysis screen stays for more than 30 minutes.
- Improvement in memory handling (freezing after start)
- Negative MaxA1 und MaxA2 on the flight analysis screen
- Altitude history ignored after start recognition. This should address the excess values of the vario in the flight analysis.
- Improvements in SMS handling: In the Info page it is possible to send an SMS on demand if an connection to a telephone provider is established. Attention. It is not ensured that an SMS is received by the intended receiver, because it can get lost in the network.

## V 2.05r from 28/08/2009

- Cosmetics on teh alarm page

## V 2.05o from 15/08/2009

- New Alarm concept
- Temperatur user alarm: New double peeb every 10 s. Can be switched on/off in Main setup menu -> Settings -> Temp Alarm. This alarm can be acknowledged with the Ok button.
- Manufacturer Temp Alarm 130°C: New double beep every 5 s. Info Page appears for 10 s. This alarm cannot be acknowledged.
- Altitude Alarme High or low: Only 1 alarm beep, Altitude inverse
- Wrong ID only Symbol ?--? in Userfield Env. Temp.
- Sensor problem: Only 1 alarm beep and sign -//- in Userfield Env. Temp
- No TT34 reception: Only 1 alarm beep and sign -- in Userfield Env. Temp- TT34 reception quality bar empty.
- Info page with info button lists always all pending alarms.

## V 2.05i from 19/06/2009

- Fastrax with SiRF protocol. FLARM Timing not yet implemented
- Bugfix freeze after CTR and Bluetooth settings

## V 2.05f from 11/05/2009

- Identification string changed to 6040 without total reset.

## V 2.05d from 28/04/2009

- Identification string changed to 6040. **Caution**: This will cause a total reset of instruments with earlier versions. Everything exept the calibration data will be reset, incl. serial number and company.

- Bugfix Scale in Map in flight book
- New default settings for LCD
- Package 02, 300 CTRs released
- Speed > 100 without decimal

## V 2.05b from 8/04/2009

- Barometric altitude in IGC file based on 1013.25 (QNE)
- Zoom and Scroll in windlayer page also in feet scale. Attention after changing the units to feet the instrument needs a restart.

## V 2.05a from 7/04/2009

- Refresh ALT1 and QNH also on windlayer and map page.
- Zoom and Scroll on wind layers.

## V 2.05 from 1/04/2009

- Bluetooth SPP passive pairing (not tested)
- Bug Fix Grounspeed on wind layer page
- Windlayerpage: Speed > 65 as number
- PEV and change Alt1 during recording released
- New function of Softkeys F1/F2 in map screen
- Text changes

## V 2.04a from 11/03/2009

- Namings: Total Alt Upper Alt and Lower Alt, Env Temp, TT34 Serial number, Alt1
- Units added in Temp Alarm Setting
- Temp alarm F1, F2 key eliminated
- Altitude limit (Alt alarm key) also in feet
- No Alt Alarm Settings in the simulation mode

## V 2.04 from 026/02/2009

- The problem with two TT34 transmitting in a time slot smaller than 0.5s could be solved.
- Windlayer page also in feet

## V 2.03f from 09/02/2009

- Max. manufacturer Env. Temperatur Setting new in the Factory Settings.
- Additional Env. Temp. Alarm User Setting in the instrument settings
- Variointegrator fix on 1 s. Only one Variometer menu topic.
- Acoustic settings only Sinktone and Modulation.
- Hello and goodbye in the chosen language.
- Instrument Setup topic order changed.
- Varioscale on the windlayer page new in ft/min*100
- Units on the varioscale.
- Windlayer graphics shifted to fit better on the page
- Windlayer graphics in mph and kn
- Units of the sink tone alarm in 10ft/min*100 steps.
- New Userfield "QNH inHg" in 1/100 inHg.
- Speed in 0.1km/h resolution
- In Simulation Mode the max. Env. Temp not directly settable with F1/F2
- Sensor break delayed by 1 minute.
- Smoothing Factor and Filter Factor of the GPS module new on 1 (Before 2) Speed and course should be updated faster.
- The problem with two TT34 transmitting in a time slot smaller than 0.5s could not be solved because of an internal timing problem.

## V 2.03b from 23/12/2008

- New Errorpage

## V 2.03a from 18/12/2008

- -- in Speeddisplay in case of no GPS reception

## V 2.03 from 5/12/2008

- Basic version