Altitude Charts

Altitude Charts is a program to fetch flights from SidusG2 BTBox.

How to start using an app:

1. Download Altitude Charts app from the store. Search **"Altitude Charts"** or press on direct link:
   - For **IOS** devices https://itunes.apple.com/app/id1451501141
   - For **ANDROID** devices
   https://play.google.com/store/apps/details?id=com.blogspot.recvec.altitudecharts
2. Pair **Altitude Charts** app with SidusG2 BTbox
3. Using SidusG2 BTbox, fetch a flight from the Timer to your device.

Pairing Altitude Charts app with BTbox:

1. Make sure Bluetooth is enable on your device.

2. Open Altitude Charts app and provide all permissions that the app requests.

3. Open **Settings** screen
   optional (you may immediately select the filter to be used for data display in the flight value spreadsheet).

4. Turn on BTbox by pressing a button on it. The app must display the detected BTBox name.

5. On your BTbox, press and hold a button for 5 seconds. BTbox will illuminate in red and glow continuously.

6. In the app, tap "Pair" button and wait until pairing is completed.

7. Done. BTbox is paired to this device.

Fetching and saving flights:

1. Make sure that BTbox is on and paired to your device, and your device has
   only for IOS: Bluetooth on
   only for Android: Bluetooth on and GPS has LOCATION MODE **Device only** or higher.

2. Wait until the app connects to BTbox automatically. When this happens, the app will display **"Ready"** and a blue LED will be continuously glowing on the box.

3. Make sure that SidusG2 Timer, which will be used to read the flight data, is on.

4. Set the timer in BTbox and press a Fetch Flight button on the box.

5. Wait until the app reads the flight. Then, it will automatically open the fetched flight.

6. To save, press "Save" button located at the top left.

7. Enter the name of the model used to fetch the flight from and press "Save" button again.

8. To remove a flight, press "Remove" button located at the top right.

Add notes to a flight:

1. Open a saved flight or fetch a new one from the Timer.
2. Press **"Info"** field located at the bottom right of the screen. A keyboard will open.
3. Enter your note. (It will be saved automatically.)

Compare flights:

1. Open the *main page* with all flights
2. Press "Open Compare" button. Additional functionality will open.
3. Select up to 3 flights for comparison. (You can select them by switching tabs).
4. Tap "Compare" button.

Change model name:

1. Open a flight.
2. Tap the model name.
3. Enter a new model name (A new name will be saved automatically).

Change filter for spreadsheet data:

1. Open *Settings* screen.
2. Select a filter you need. (A selected filter is saved automatically)

Remove flight:

1. Open a flight.
2. Tap "Remove" button.
3. Confirm the removal.

Unpair an app and BTbox:

1. Open *Settings* screen
2. Tap "Remove" button.

Flight Screen

1 Save or Back button (save button shown if this is a new flight)

2 Model name

3 Detail information about selected point or selected period

4 Information by point or by period button

5 Remove button

6 Time of fetched flight

7 Altitude chart

8 Flight detail information and info field

9 Flight value spreadsheet button

10 Detail about flight button

11 Filtered flight value spreadsheet *(uses the filter in the settings)*

None:	**F1B-F1Q:**	**F1C-F1Q:**
0-15: 0.1s	0-2: 0.2s	0-10: 0.1s
15-30: 0.5s	2-10: 0.5s	10-20: 0.5s
30-60: 1.0s	10-50: 2s	20-50: 2s
>60: 2s	>50: 10s	>50: 10s

ⓘ *F1B-F1Q* and *F1C-F1Q* filters don`t show next values if 10 previous points have average climb < 0.01 m/s (model on ground)

Compare Screen

1 Back button

2 Flight value spreadsheet button

3 Detail information about selected point or selected period

4 Altitude charts

5 Models name

6 Cell with flight value   **Time(s)   Flight_1(m) Flight_2(m) Flight_3 (m)**

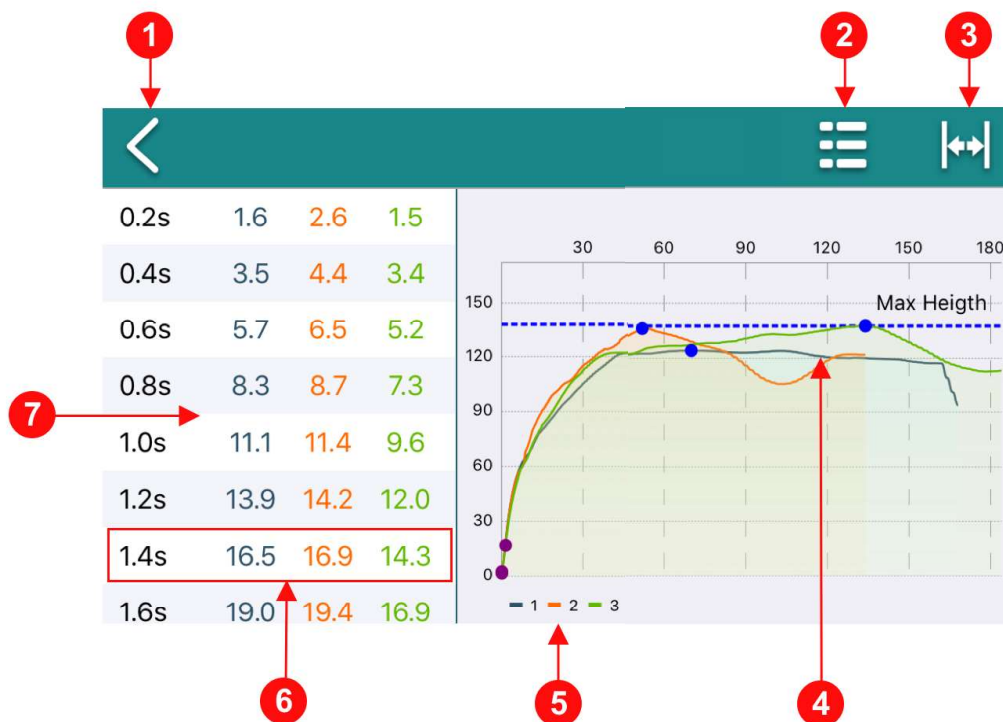**7** Filtered flights value spreadsheet *(uses the filter in the settings)*

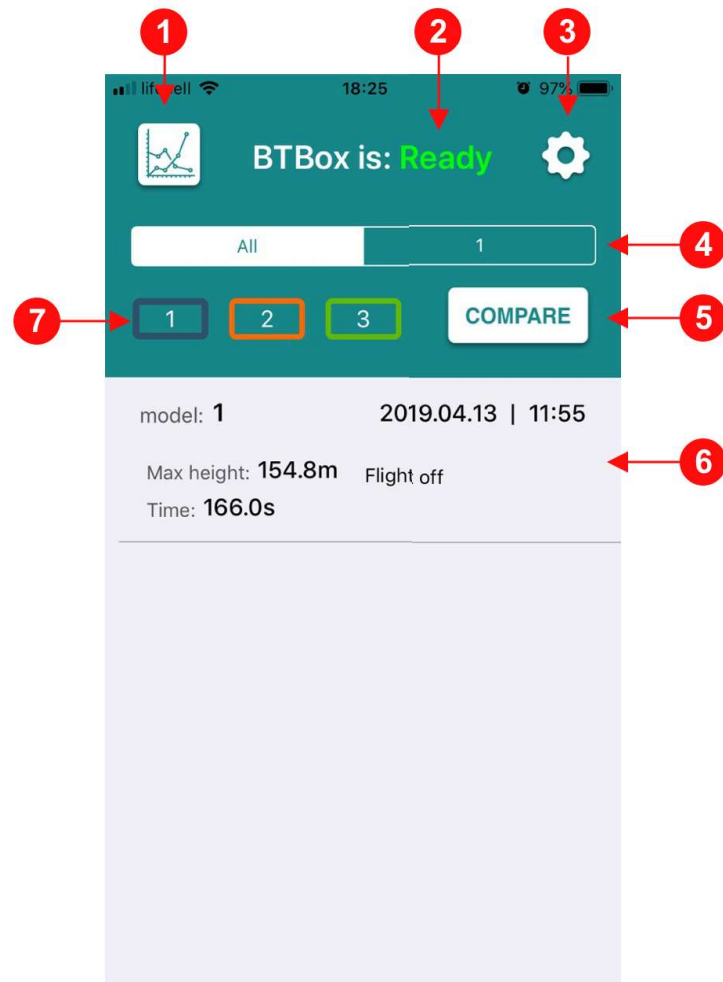| None:	F1B-F1Q:	F1C-F1Q:
0-15: 0.1s	0-2: 0.2s	0-10: 0.1s
15-30: 0.5s	2-10: 0.5s	10-20: 0.5s
30-60: 1.0s	10-50: 2s	20-50: 2s
>60: 2s	>50: 10s	>50: 10s

(i) *F1B-F1Q and F1C-F1Q filters don`t show next values if 10 previous points have average climb < 0.01 m/s (model on ground)*

Main Screen

1 Open compare button

2 BTbox state (*Off* or *Ready*)

3 Settings button

4 Tabs with flights

5 Compare button

6 Cell with saved flight and detail information

7 Selected flight for compare *(MAX 3 flight)*

Settings Screen

(1) Back button

(2) Filter for spreadsheet data *(A selected filter is saved automatically)*

None:	**F1B-F1Q:**	**F1C-F1Q:**
0-15: 0.1s	0-2: 0.2s	0-10: 0.1s
15-30: 0.5s	2-10: 0.5s	10-20: 0.5s
30-60: 1.0s	10-50: 2s	20-50: 2s
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(i) *F1B-F1Q* and *F1C-F1Q* filters don`t show next values if 10 previous points have average climb < 0.01 m/s (model on ground)

(3) Pair or Remove button

(1)

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Settings

Choose data filter

| None | F1B-F1Q | F1C-F1Q | **(2)**

None:	F1B-F1Q:	F1C-F1Q:
0-15: 0.1s	0-2: 0.2s	0-10: 0.1s
15-30: 0.5s	2-10: 0.5s	10-20: 0.5s
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! F1B-F1Q and F1C-F1Q filters don`t show next values if 10 previous points have average climb < 0.01 m/s (model on ground)

Paired with: **SidusG2A05**

Remove   **(3)**