Flugsachen – Cockpit for Jeti

EN Version 3.22

powerd by Flugsachen.de

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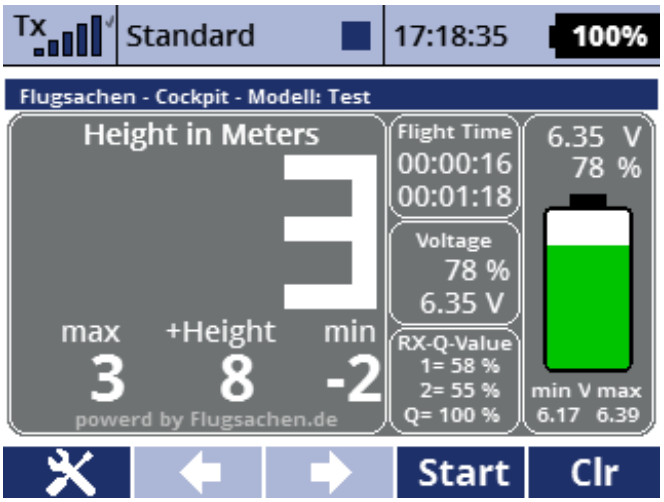
1. Introduction

The display of the Jeti transmitter is divided with the app into individual windows. For the windows different options can be selected, this is set in the setup. The app accesses the data of the selected sensor. The settings are stored in the model file, so for each model the app is used for different settings are possible.



In the large window on the left, the altitude data is displayed as values or as an instrument, depending on the setting used. The height gain (+height) can be set to zero using the switch.

Different values can be displayed in the middle windows, e.g. flight time, voltage, reception quality.

In the right window the battery status of the selected sensor is displayed graphically as battery symbol or as voltage instrument.

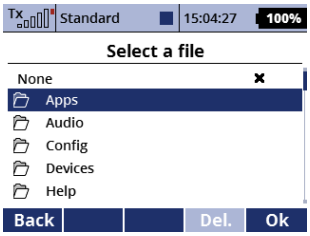
The current versions of the app and manual are available at:

http://flugsachen.de/modellflug/lua-programmierung/

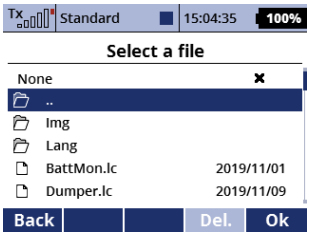
The author assumes no liability for the manual or the app for completeness or function. Use of the app is at the user's own risk.

2. Installation

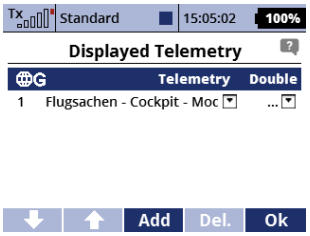
The app FSCockpit.lc is copied to the Apps directory. The image files, *.png, are copied to the Img directory in the App directory. The language file FSCockpit.jsn is copied into the Lang directory and the *.wav files into the Audio directory. If the directories do not yet exist, they must be created. In the directory sImg are backgrounds for the transmitter setting, with this the background of the whole display can be set, for instructions see chapter Background setting. These files can be copied into the picture directory of the app as well as into the standard picture directory of the transmitter.



Directory for the app



Subdirectory Img for the graphic files

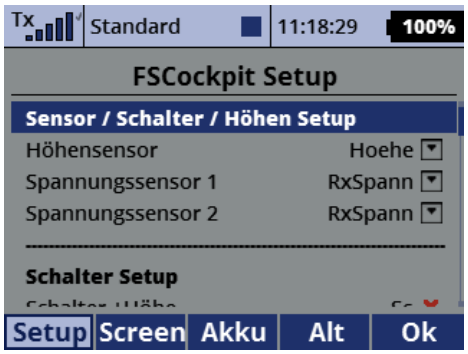


Include in Telemetrie display

The app can then be activated under Additional Functions/User Applications in the respective model. The app must be activated and set separately for each model. After the first activation, please select and start the app immediately and make the settings, otherwise the app will crash. The settings are made later under Additional functions/FSCockpit Setup. Now the app can be assigned to the display under Stopwatches/Sensors Telemetry Display.

3. Settings

After the installation some settings have to be made. For the initial installation, the settings must be selected directly after the app has been integrated into the model by selecting the app with the multifunction button. If the app crashes please reload the app. After installation, the settings in the transmitter are made in the additional functions in the FSCockpit Setup. Some of the settings are preset and can then be adjusted. The setup is divided into four screens. The first screen is used to make basic settings such as switch assignment, etc. In the second screen, the settings for the screen are made. The third screen is for battery settings and the fourth screen is for altitude settings.



3.1. Setup Screen

3.1.1. Height sensor

Select the height value of the sensor from the list. If a value other than the height is selected, the app may crash. The app must then be restarted and all parameters re-entered.

3.1.2. Voltage sensors

If a different voltage value than that of the receiver is to be displayed then select the voltage value for sensor 1 and or for sensor 2, if no value for sensor 1 or sensor 2 is selected then the voltage of the receiver is used. The selected sensors can be selected via a switch for the display. The selected sensor is shown in the battery symbol or the meter. If values other than the voltage are selected, the app may crash. The app must then be restarted and all parameters re-entered.

3.1.3. Switch +Height to 0

Here we select a switch or button for resetting the gain in altitude. The gain in altitude results from the gained altitude meters from the start or the resetting with the switch.

3.1.4. Height Announcement Switch

Here a switch for the treble announcement is selected, it must be a two-step switch (on/off), not a button. As long as the switch is set, the altitude is announced with the selected interval. The interval is set on page 4, Alt.

3.1.5. Timer Switch

Here a switch for the flight timer is selected, it must be a two-step switch (on/off), not a push button. The time runs as long as the switch is set and only runs when the transmitter has reception and stops when the switch is reset or there is no reception. The next time the switch is turned, the flight time is reset to zero. The total flight time is stored as the sum of the individual flights for each model and can be set to zero via the setup.

3.1.6. Switch for battery selection

For example, a three-step switch can be selected here if all three voltages are to be called up. Further variants are, if only one battery that is not directly connected to the receiver is to be polled, a single step switch or, in the case of two batteries, a two step switch. The battery setting variants follow in another section of the manual. The RX Voltage switch selects the direct voltage display of the receiver. The Sensor 1 and Sensor 2 switches select the selected voltage sensors. The selected sensor is shown in the battery symbol or the pointer instrument, RX = receiver battery, S1 and S2 for sensors e.g. Jeti CB Box.

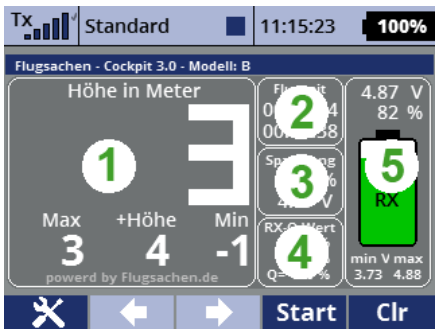
3.1.7. Timer Setup

Here you can select the voice output for the start and end of the timer.

3.1.8. Delete total flight time

A check mark is set if the total flight time in memory is to be deleted.

3.2. Screen Setting (Screen)



3.2.1. Background

Here you can choose from a list of backgrounds. If you also want to have the whole screen with a certain background, you can choose a background image under Model Color Setting. You will find a selection in the sImp directory in the installation file of the app. These images fill the whole screen of the station. You can easily create your own backgrounds with your PC. Use an image as a template for the format.

3.2.2. Textcolor

You can choose between three text colors:
1 = black 2 = white 3 = cyan

3.2.2. Content Window 1

1 2 2 small 2 wide

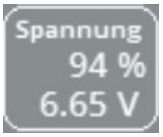
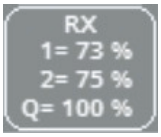
Display 1 shows the current altitude in large digits at the top and the maximum altitude, altitude gain and minimum altitude below.

Display 2 shows the current altitude in large digits at the top and the flight time below.

Display 3 with the altimeter shows the altitude from 0 - 6 metres in metres per unit, from 6 - 60 in 10 metres per unit and from 60 metres in 100 metres per unit. The instrument displays the altitude gain in meters at the top and the current altitude in meters below.

If no contents are selected for the middle windows, the altitude readings are displayed in a larger window.

3.2.3. Window 2 to 4

1	2	3	4	5	6
Empty					

3.2.4. Window 5

1	2
	

The displayed voltage depends on the selected sensor and the set values. The selected sensor is shown in the display, RX = receiver battery, S1 and S2 for sensors e.g. Jeti CB Box. The displayed values are set in the third window, Battery.

3.3. Battery Settings

3.3.1. Battery Warning

The battery warning can be switched on or off here. If the check mark is set, a battery warning is issued if the selected battery voltage of one of the selected sensors is below the set alarm voltage of the respective sensor.

3.3.2. Announcement Battery Warning

Please select a sound file for the acoustic battery warning, e.g. NiedriAK.wav. No matter which sensor is selected, the warning is always given for each battery that falls below the alarm voltage.

3.3.3.. Battery voltages

Here you can set the values for the selected batteries. If no external sensor is selected, the voltage is displayed directly from the receiver. This setting is made per sensor, i.e. for the receiver battery, battery 1 and battery 2. If no sensor is selected for one of the sensors, no settings need to be made.

3.3.4. Battery voltage

The nominal battery voltage is entered here. When selecting RX, the app accesses the voltage in the receiver, so using this variant only makes sense if no BEC is used, as in this case the voltage would be displayed constantly until shortly before the minimum voltage is reached. With sensor 1 and 2 sensors of the Jeti CB Box or other sensors which are telemetry capable can be selected.

3.3.5. Alarm voltage

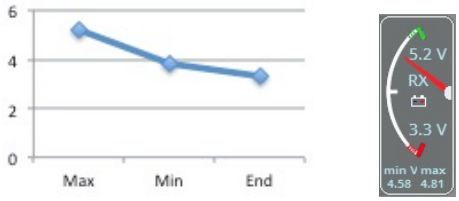
This is the lowest voltage to be reached. If the alarm voltage is reached at the battery symbol, the colour changes from green to red and the selected acoustic battery warning is given. No matter which sensor is selected, the warning is always given for each battery that falls below the alarm voltage and the display changes colour to red.

3.3.5. Switch-off Voltage

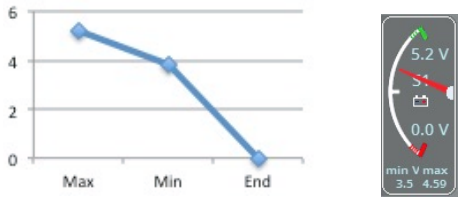
This is the minimum voltage of the battery. If this is set to zero, the entire voltage range is available for display. If the value is set to the minimum voltage, you have a quick overview of the remaining available voltage.

Example:

Maximum battery voltage 5.2 volts, battery warning at 3.8 volts, battery end voltage 3.3 volts



Voltage display from 5.2 to 3.3 Volts



Voltage display from 5.2 to 0 Volts

3.4. Height Settings (Page 4 / Alt)

3.4.1. Threshold height Warning

Here you can enter a value in meters for an altitude warning, if this value is reached, an acoustic warning message is issued. A message can be found in the zip file, if no value is entered there will be no acoustic warning.

3.4.2. Announcement Altitude Warning

Here you select the *.wav file for the altitude warning message, if no value is entered there is also no acoustic message.

3.4.3. Interval for Altitude Announcements

Here a value in meters is entered in which interval the altitude should be announced when the selected switch is set to on.

3.4.4. Minimum Altitude

Here you enter a value in meters from which the altitude announcement should start. If a negative value is entered, the values below zero altitude are also announced. This is especially interesting when flying on slopes or in the mountains.

3.4.5. Ansage für Sinken

If the height is also to be announced when the height decreases, a tick must be set here.

3.4.6. Schritte für Höhengewinn

The steps in which the height gain should be incremented. With this value the sensitivity of the altitude gain display can be adjusted to the model and the sensor. The smaller the value, the more sensitive the response of the altitude gain.

4. Disclaimer

- Never use Lua apps to control a function that could cause the model to crash if it fails !
- I do not assume any liability for the completeness or function of the instructions or the app. The use of the app is at the user's own risk.
- The app is tested without further activated apps. I do not guarantee that it will work with other apps.
- Always check the function of the app before using it, if you are not sure if everything works, don't activate the app.
- The app can be used and distributed free of charge.

Translated with www.DeepL.com/Translator (free version)