en/Parachute

LotharF MikroKopter.de

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1 Parachute Input

If you want to use a parachute on the MikroKopter, the Motors must stop when the parachute releases.

Now you can connect a switch on the IO1 input of the FC3.0 for emergency-switch-off.

To make sure this can't happen for users without Parachutes, these criteria must be met:

• 1 - License Feature "Parachute" must be active



• 2 - The IO-Function must be set to 9 = Parachute on the SD-Card You can open the "settings.ini" on the microSD card with an editor and change it.



2 How to check the activated function:

You can see the activated funcion in every logfile:

• (<u>GPX-Viewer</u>)

GPX-Info	×
Firmware-/Hardwareinfo: FC HW:3.0 SW:2.15a + NC HW:3.0 SW:2.14c + BL HW:V3 SW:1.10	
name: Testlizenz #994 email: features: 2000m-range-limit,single&wpls-50,parachute,non-commercial expires: 01.03.2022	*
settings: Number: 3,Easy Receiver: HOTT CompassOffset: 0 FCOrientation: 0 GeoMag: 1.4 Neutral: 8254,8113,1034 Kalibr.: 8250,8111,1034 MagSensor: external1,(2),D FailSafeTime: 60 MaxAltitude: 150 IO1Function: Parachute! Bytes: 6b,f2,d1 18 errors found !	E

3 Input IO1

- The input must be a closing contact on **IO1 of the FC3.0**
- If the input is closed during flight (for min.2 seconds), the motors will stop.

When the contact is closed, you will get an error Message **43: Parachute!** via the telemetry and the HoTT-Transmitter speaks *"MikroKopter Off"*

You can find the error message in the Logfile like this:

GPX-Viewer2 V0.64b: C:\Daten\LOG_Diverse\16031504.GPX <fc +="" bl="" hw:3.0="" hw:v3="" nc="" sw:1.10="" sw:2.14c="" sw:2.15a=""></fc>										
File	Charts	Options	Windows							
		sat	FlightTime	ErrorCode	FCFlags2	NCFlag	Speak	Altimeter	Variometer	
23		13	0:32	0: OK	0x03,0x22: AH	0xC2: PH MANUAL		-0,10 m down	1	
24		13	0:32	0: OK	0x83,0x3a: DN AH 01 02	0xC2: PH MANUAL		-0,30 m ==	-3	
25		13	0:33	0: OK	0x03,0x2a: AH O1	0xC2: PH MANUAL		-0,05 m ==	4	
26		13	0:33	0: OK	0x03,0x22: AH	0xC2: PH MANUAL		-0,05 m ==	2	
27		13	0:34	43: Parachute!	0x03,0x32: AH O2	0xC2: PH MANUAL		-0,50 m ==	-7	
28		13	0:34	43: Parachute!	0x03,0x2a: AH O1	0xC2: PH MANUAL		-0,55 m landed	-1	
29		13	0:34	43: Parachute!	0x03,0x3a: AH O1 O2	0x82: PH	MK_OFF	-0,45 m landed	1	
30		13	0:34	43: Parachute!	0x00,0x1a: MOT OFF NOFLY AH 01 02	0x82: PH	MK_OFF	-0,40 m landed	0	
31		13	0:34	43: Parachute!	0x00,0x0a: MOT OFF NOFLY AH O1	0x82: PH	MK_OFF	-0,35 m landed	0	
32		13	0:34	43: Parachute!	0x00,0x02: MOT OFF NOFLY AH	0x82: PH	MK_OFF	-0,35 m landed	0	
				_						

4 Example connection

Here you can see how to connect the **IO1** with an separate receiver and a parachute.

