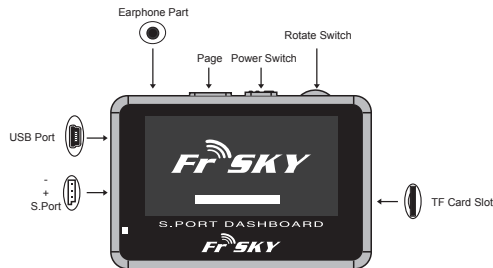


Instruction Manual for FrSky S.Port Dashboard

1. Introduction

1.1 Overview:



1.2 Specifications:

Model Names: FSD (FrSky S.Port Dashboard)
 Compatibility: FrSky X Series Telemetry Modules
 Voltage Range: 4.8~6V
 Dimension: 75*50*13.8mm
 Pixel: 128*64

1.3 Features:

- 1) Show all connected sensors data;
- 2) Capable of programming alarm thresholds and system settings;
- 3) Set Physical ID and Group Number for S.Port sensors;
- 4) Firmware upgradeable for all S.Port products.

2. Installation

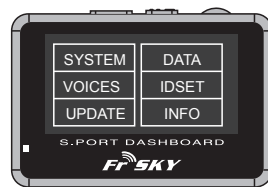
Connect FrSky FSD to the S.Port on FrSky X series telemetry module (S.Port, VCC, GND) by the provided cable.

3. Screen Structures

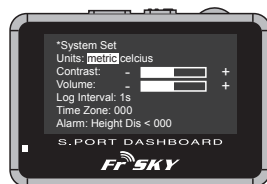
Use "rotate switch" to choose, short press "rotate switch" to confirm, short press "page" to the next page, hold "page" for 1 second to go back to previous screen.

3.1 Main screen:

SYSTEM	System settings
VOICES	Settings
UPDATE	Upgrade S.Port devices
DATA	Telemetry data display
IDSET	Set phyID and GNum for S.Port sensors
INFO	Firmware and Eeprom version



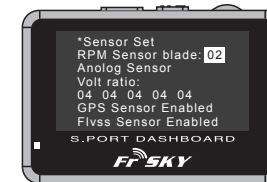
3.2 SYSTEM screen:



System Set	
Units	metric or imperial (selectable), fahrenheit or celcius (selectable)
Contrast	adjust the contrast of the screen
Volume	adjust the volume of the voice
Log Interval	data log period (0.1s, 0.5s, 1s, 2s, 5s selectable)
Time Zone	-11 to 12 time zone selectable ("- " is west and "+ " is east)
Alarm	use "rotate switch" to choose, short press "rotate switch" to change the setting (see detailed chart below)

Alarm	Sensor	Direction	Unit
Height	Variometer	>	10m
HeightC	Variometer	>	10m
A1	Receiver	<	0.1V
A1C	Receiver	<	0.1V
A2	Receiver	<	0.1V
A2C	Receiver	<	0.1V
A3	S.Port2UART	<	0.1V
A3C	S.Port2UART	<	0.1V
A4	S.Port2UART	<	0.1V
A4C	S.Port2UART	<	0.1V
RxBat	Receiver	<	0.1V
RxBatC	Receiver	<	0.1V
SWR	Module	>	
SWRC	Module	>	
RSSI	Receiver	<	
RSSIC	Receiver	<	

Note: "C" after the alarm name means "critical".

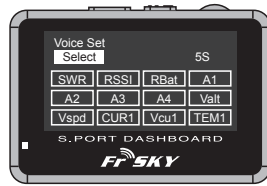


Sensor Set	
RPM Sensor blade	Set the blade numbers for RPM Sensor
Analog Sensor Volt ratio	Voltage Division Ratio for A1, A2, A3, A4, RBat
GPS Sensor	Enable or Disable the GPS data screen (Page 4 of DATA screen)
Fivss Sensor	Enable or Disable the Lipo Voltage data screen (Page 5 of DATA screen)

Follow the steps below to change "System Set" and "Sensor Set":

- Step 1: Short press "rotate switch" to open "system set";
- Step 2: Use "rotate switch" to choose the position you want to change;
- Step 3: Short press "rotate switch" to change the settings.

3.3 VOICES screen:



Voice Set	
Select	Voice can be set to "All off", "All on", "Select"
5S	Time interval for the voice announcement (5s, 10s, 20s, 30s, 1m, 1.5m, 2m selectable under "Select")

Follow the steps below to change "Voice Set":

Step 1: Short press "rotate switch" to open "system set";

Step 2: Use "rotate switch" to choose the position you want to change;

Step 3: Short press "rotate switch" to change the settings.

3.4 UPDATE Screen:

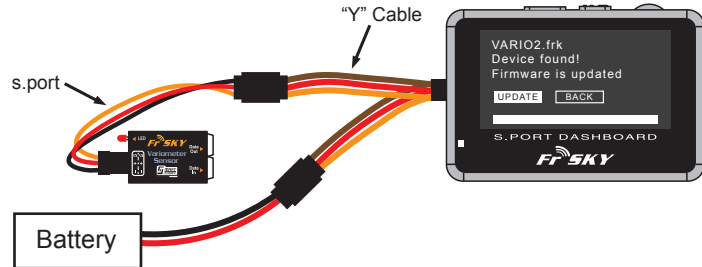
FrSky FSD could upgrade FrSky S.Port products (including modules, receivers, sensors and other S.Port enabled devices). Follow the steps below to finish the upgrade.

Step 1: Create a new folder named "S.PORT" in the TF card by PC;

Step 2: Download the firmware from FrSky website and put the frk. firmware into the "S.PORT" folder;

Step 3: Insert the TF card back into the FSD card slot;

Step 4: Connect the battery to the FSD by the Y harness, and use rotate switch to choose UPDATE on the main screen and short press to enter UPDATE screen;



Step 5: Use rotate switch to choose the frk. firmware you want to upgrade and short press to open;



Step 6: Connect the right device to FrSky FSD by the Y harness;



Step 7: After the screen shows "Device found! Please click UPDATE", choose and short "UPDATE" to confirm update or "BACK" to quit the update;



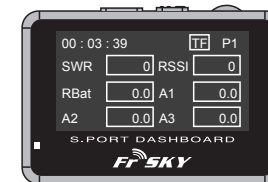
Step 8: Wait for flashing;



Step 9: After the firmware is updated, choose and short press BACK to go back to the update screen.



3.5 DATA Screen:



Time: H/M/S (If GPS sensor is connected, the time will be GTM in 10 seconds; if not, the time will be your operation time)

TF: If the FSD has the TF card inserted already, here will have the TF logo; if not, here will show ER (error).

Short press "rotate switch" will activate the TF to be "ON", meanwhile start to log your telemetry data.

P: Number of pages

Follow the steps below to change the data names from page 1 to page 3:

Step 1: Short press the rotate switch

Step 2: Use the rotate switch to choose the position you want to change

Step 3: Short press the rotate switch

Step 4: Use the rotate switch and find the data name you want and short press rotate switch to confirm.

Note: Data screen has 5 pages in total. Just enable the GPS sensor and Lipo Voltage Sensor on the SYSTEM screen to enable the page 4 and 5.

Page 4: GPS data

Latitu: Latitude (unit: degree)

Longi: Longitude (unit: degree)

Distance: Distance from your first position to your flight position now

Date: Y/M/D



Page 5: Lipo Voltage Sensor data

Total: Total voltage, cell number and cell voltage of all the batteries connected.



Data	Meaning
SWR	Antenna Detection
RSSI	Received Signal Strength Indicator
RBat	Receiver Battery Voltage
A1 A2	Analog Voltage (Receiver)
A3 A4	Analog Voltage (S.port to UART Host)
A3_1 A4_1	Analog voltage (S.port to UART Remote)
Valt	Altitude of Variometer Sensor
Vspd	Vertical Speed
Vcu1 Vcu2 Vcu3 Vcu4	Voltage of Current Sensor
CUR1 CUR2 CUR3 CUR4	Current of Current Sensor
TEM1 TEM2	Temperature
RPM1 RPM2 RPM3 RPM4	RPM
Fuel	Fuel Level
Altg	Altitude of GPS
Spdg	Speed of GPS
CC1 CC2 CC3 CC4	Current Consumption
PWR1 PWR2 PWR3 PWR4	Power of Current Sensor
Cors	Direction of GPS
Scur	Sum Current of Current Sensor
Vol-	the Lowest Voltage among all Cells

TIPS: Vcu, CUR, TEM1, RPM, CC, PWR have several data because of the different groups.

3.6 IDSET Screen:



PhyID	GNum
physical ID of the sensor	group number of the sensor
NewPhyID	NewGNum
new physical ID you want to set for the sensor	new group number you want to set for the sensor
SEND	send your settings to the sensor
RESET	reset your settings to default
Tip	the result of your settings

Follow the steps below to set "PhyID" and "GNum" for S.Port Sensors:

Step 1: Use "rotate switch" to choose "IDSET";

Step 2: Use rotate switch to choose New PhyID and/or New GNum and short press;

Step 3: Set the number for the sensor and short press "rotate switch";

Step 4: Short press "SEND" and confirm "Tip" indicates "Finished".

3.7 INFO Screen:

FrSky Sport Dashboard

Firmware Vers: v1.52

Eeprom Vers: v0.3



4. Upgrade FSD

Follow the steps below to upgrade the FSD firmware:

Step 1: Create a new folder named "Firmware" in the TF card by PC.

Step 2: Download the firmware from FrSky website and put the .bin file into the "Firmware" folder.

Step 3: Insert the TF card back into the FSD card slot.

Step 4: Hold "Page" button while power on the FSD.

Step 5: Use "rotate switch" to choose "YES" to reflash (or "NO" to quit) and short press "rotate switch" to confirm the upgrade.

