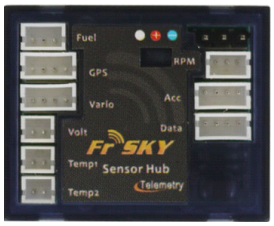
Instruction Manual for FrSky Sensor Hub and Sensors

1 FrSky Sensor Hub (FSH-01)

FrSky Sensor Hub is recommended to connect digital side port (G, TX, RX) of FrSky telemetry receiver and FrSky sensors by the provided cable, to serve as an information collecting and processing center, monitor the model status and feedback all data back to FrSky DHT-U.

Dimension: 37*30*8mm
Weight:
Operating Voltage Range: 4~10V
Operating Temperature Range: -20~80℃
Feature: Firmware upgradable
Definition:

Fuel: Fuel Gauge Sensor
GPS: GPS
Vario: Variometer Sensor
Volt: Lipo Voltage Sensor
Temp1/2: Temperature Sensor



Power: Power Supply
RPM: RPM Sensor
Acc: Triaxial Acceleration Sensor
Data: use provided cable to connect to digital side port (G, TX, RX) of FrSky telemetry receiver

Installation:
It is recommended to take the length of all sensors' wires into consideration before mounting, and use double-sided tape to install FrSky sensor hub at an appropriate place in the model.

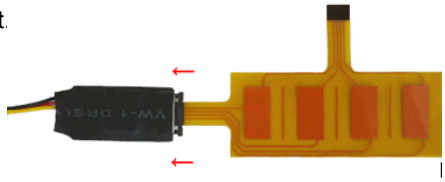
2 FrSky Sensors

Different sensors facilitate to monitor different data, such as fuel lever, speed, longitude, latitude, altitude, temperature, RPM, acceleration, etc. If the model is driven by battery, users could use in-built or external battery voltage sensor to monitor model's battery voltage.

2.1 Fuel Gauge Sensor (FGS-01)

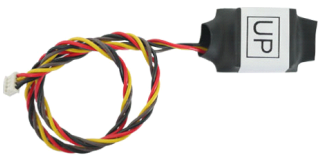
Measurement Levels: Empty, 1/4, 2/4, 3/4, Full
Length of the Sensor Film: 62mm
Installation: Use double-sided tape to attach both circuit board and sensor film firmly to the outside of the fuel tank.

How to replace the sensor film:
Lift the locking tab on both sides of the port, insert the sensor film and press the locking tab back into place to secure the sensor film in the circuit board. Confirm the orientation is correct.



Note: The fuel tank MUST be empty at the start of this process for the sensor to accurately read the fuel level. FGS-01 does not apply to metal tank or petrol/gasoline.

2.2 GPS (GPS-01)



GPS feedbacks various data, such as speed, longitude and latitude.
Longitude: dddmm.mmmm E/W

Latitude: ddmm.mmmm N/S
Installation: Use double-sided tape to install the GPS on any appropriate surface of the airframe.

Note: Up right position is recommended.

2.3 Variometer Sensor (FVAS-01)

Measurement Range of Altitude: 0~9000m
Accuracy: 1m
Installation: Use double-sided tape to install the variometer sensor on any appropriate surface of the airframe.

Note: Wind will affect the altitude reading.

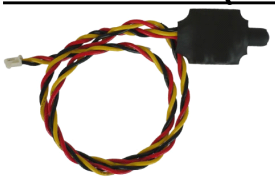
2.4 Lipo Voltage Sensor (FLVS-01)

FrSky lipo voltage sensor will be released quite soon, which can monitor voltage for each cell. Current FrSky voltage sensor (FBVS-01) is suggested to be connected to telemetry receiver's analog ports (A1 & A2).

2.5 Temperature Sensor (TEMS-01)

Up to two temperature sensors can be used at the same time. They are commonly used to read temperatures of model accessories, such as electric motor, ESC, glow and gas engine cylinder head, battery, muffler, voltage regulator, BEC, tailpipe and ambient air.
Measurement Range: -20~250 degrees Celsius/ -4~482 degrees Fahrenheit
Accuracy: 1 degree Celsius/ 1 degree Fahrenheit
Installation: Use zip ties to hold the temperature sensor tightly against the accessory that requires temperature reading.

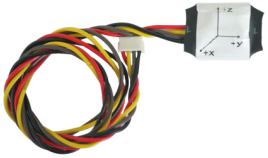
2.6 RPM Sensor (RPMS-01)



RPM sensor reads RPM data by using an optical sensor.
Measurement Range: 0~60000r/min
Installation: Point the RPM sensor straight up at any accessory that requires RPM reading.

Note: Indoor alternating current lighting will affect the RPM reading.

2.7 Triaxial Acceleration Sensor (TAS-01)



Measurement Range: ±8g (9.8m/s2)
Accuracy: 0.016g
Installation: Use double-sided tape to install the triaxial acceleration sensor on any appropriate surface of the airframe. X/Y/Z axis has been labeled on the sensor.