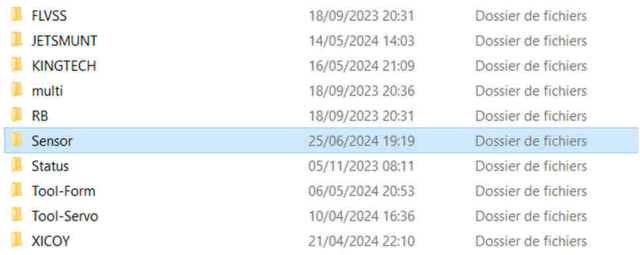
INSTALLATION GUIDE FOR LUA SCRIPT FOR FRSKY RADIO UNDER ETHOS OPERATING SYSTEM.

The telemetry module can show you the turbine data on your radio FrSky. It can be plugged if needed with a Y cable with the original MCU. The module if calculating the amount of fuel remaining every 100ms and send the value to the radio every second.

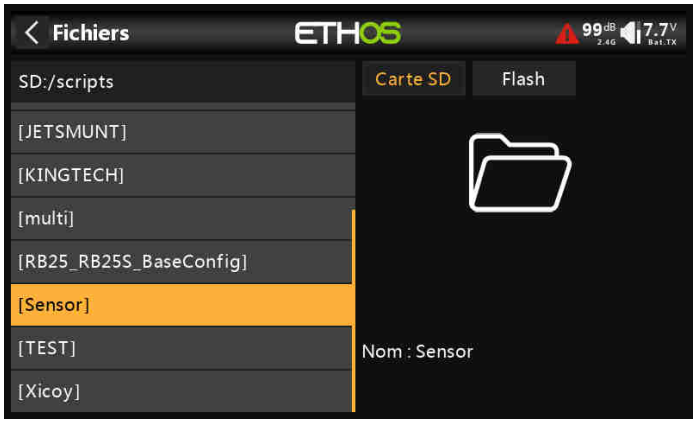
- Connect the module to the Kingtech ECU and to the SPORT connector of the RX.
- Download the 2 scripts (sensor_conf and kingtech) following the link below:

  https://github.com/aviat40/ETHOS-Lua

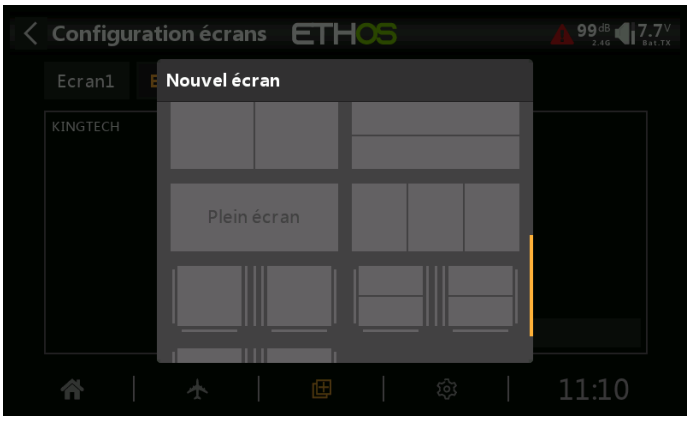
- Copy the 2 folders under the scripts folder on the radio connected to your computer with an USB cable.



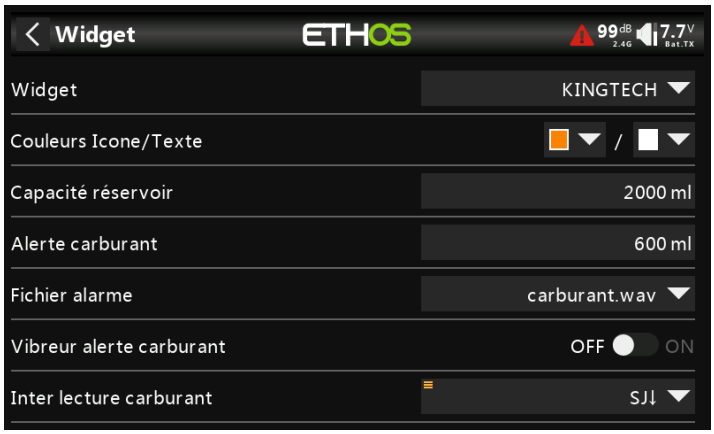
- Disconnect the radio as usual and check with the folder menu that you can see the 2 new folders.



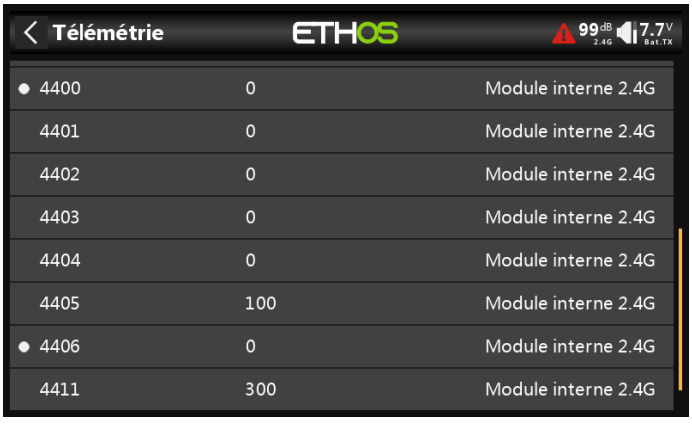
- Under the model option, add a layout and choose the full_screen as below.



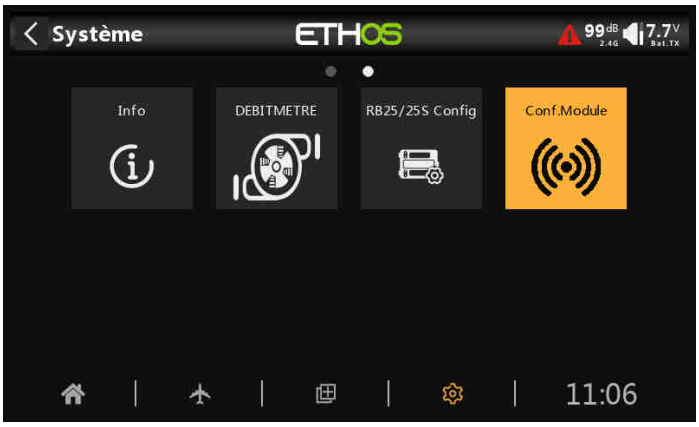
- Choose the widget name “KINGTECH”
- Configure the Widget option as desired. Don’t forget the voice alarm file, the amount of fuel which should be the same as in the module configuration and the amount of fuel for the alarm low level.



- If everything is well done, the sensors are added automatically in the telemetry screen as showed below.

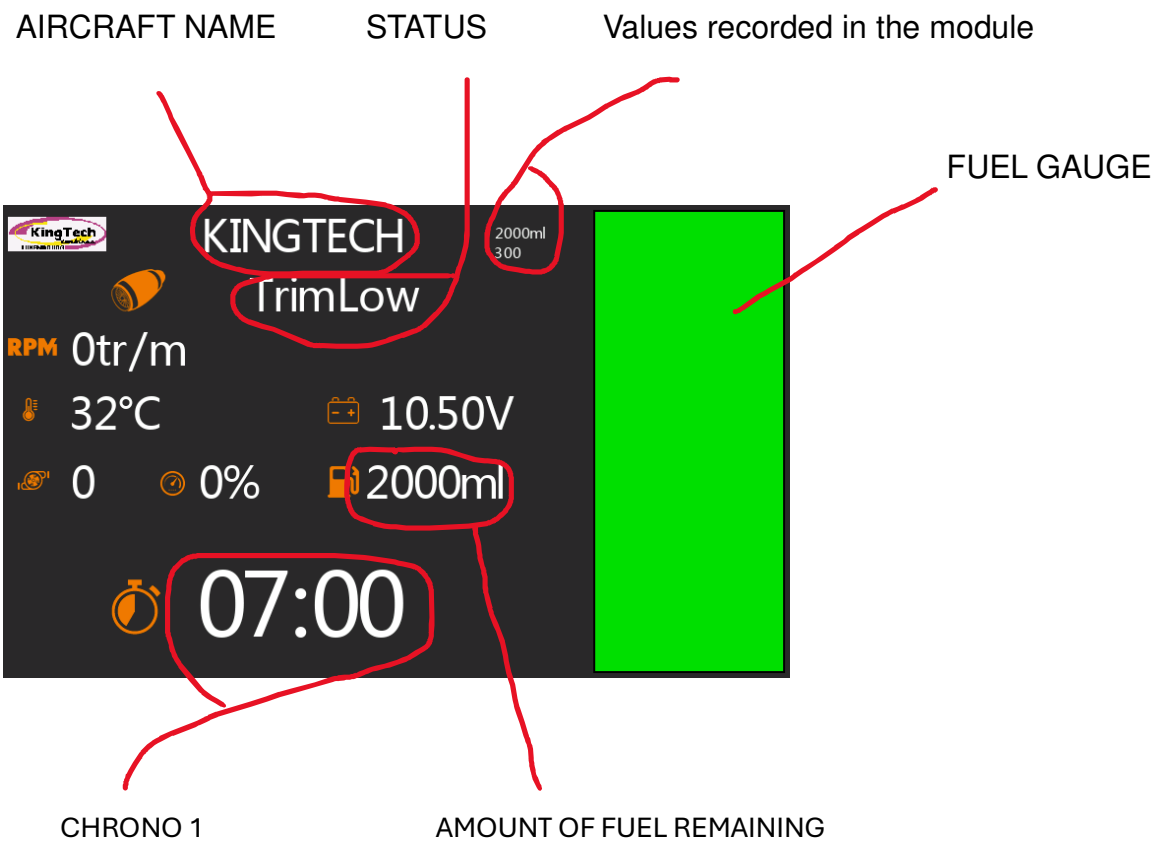


- After connecting the telemetry module, you must configure the tank capacity and the Fuel Factor using the Icon in the system configuration.



The fuel factor should be set according to your turbine and then modified after few flights as described at the end of the manual. For example, K100 has to be around 300 and K140 around 100.

- If everything is ok, you must see the screen as followed. The amount of fuel tank and the fuel factor are read from the values recorded in the module.



Fuel Factor Calibration:

1. Note your current fuel factor, for this example we will use 300.
2. Define your fuel tank size in the widget and in the module configuration widget, for the example 2000ml.
3. Fly or run the model with a known amount of fuel, for this example 1000ml was burned.
4. Note the remaining fuel amount indicated by the widget, for example the widget shows 1500ml left.
5. New factor calibration is:
   old factor * (Actual Burned fuel amount (1000) / (tank size – remaining fuel indicated by the widget)).
   In our example: 300 * (1000 / (2000 - 1500)) = **600**
6. Define the new fuel factor in the widget settings for the configuration of the module.