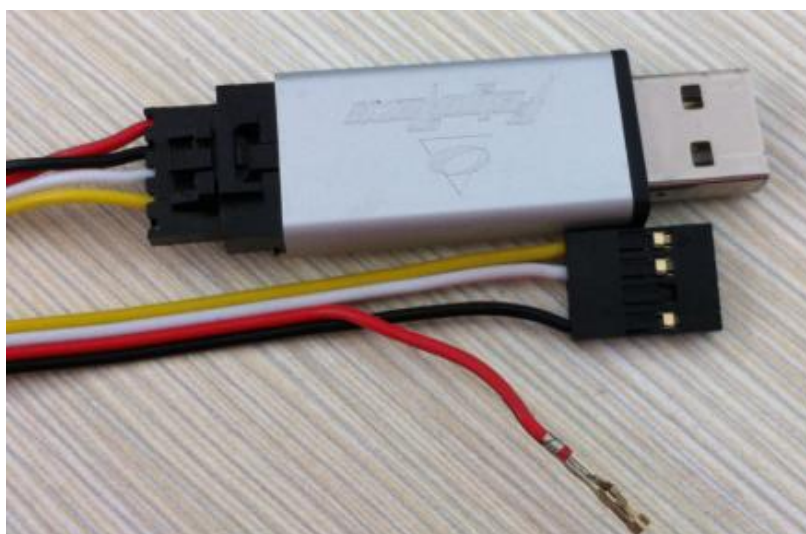


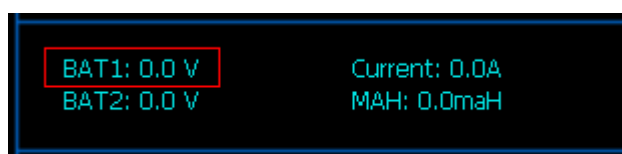
41AP / 41AP Lite Power Voltage Calibration

FY-41AP AFSS upgrade to firmware V1.24 or above version , FY-41AP Lite AFSS upgrade to firmware V1.03 or above version and work with GCS5.11 or above version can realize power voltage calibration function. Operation steps of power voltage calibration :

- (1) Confirm that the FY-41AP / FY-41AP Lite AFSS have been upgraded to correct firmware, the GCS software have been update to GCS5.11 or above version.
- (2) Plug the power manager to the “CS” power port on the FY-41 AFSS module.
- (3) The AFSS module connect to the GCS software. It can connect via the USB data cable or data radio. If the AFSS module connect to the GCS software via the USB data cable directly, please pick out the red wire (power wire) from the USB cable before plug into the “UART” port on the FY-41AP / FY-41AP Lite AFSS module, otherwise the AFSS module will be powered on by USB data cable and power manager at the same time and it will cause a damage of the devices.



- (4) Measure the actual voltage of the batteries, record as: V0 .
- (5) Connect the batteries to the power manager, the voltage display on the GCS(BAT1) record as V1 .



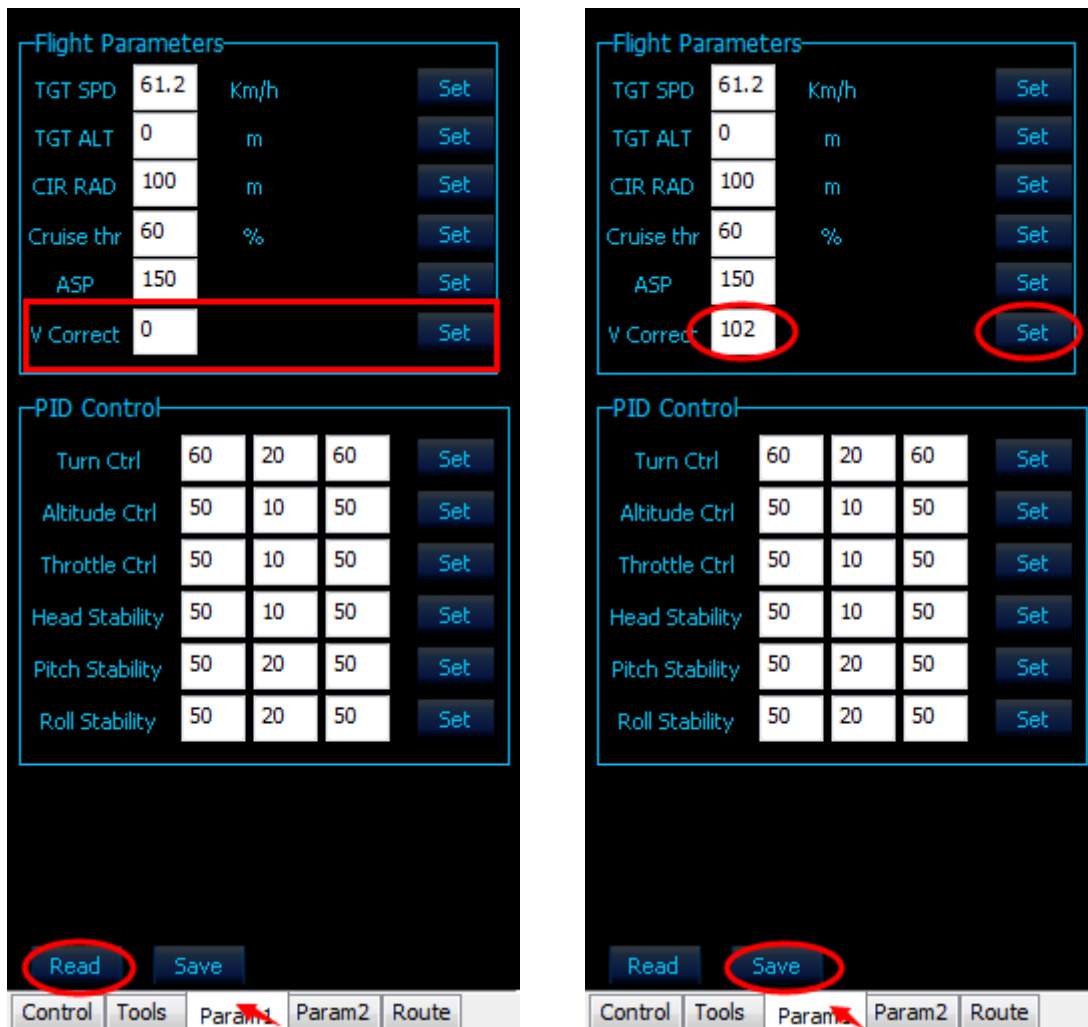
Formula for voltage calibration ratio : $C = V0 / V1 * 100$

For example: Actual voltage of the batteries $V_0 = 15.76 \text{ V}$;

Voltage display on the GCS $V_1 = 15.5 \text{ V}$

Voltage Ratio $C = 15.74 / 15.5 * 100 = 1.017 * 100 = 102$

(6) Settings of voltage calibration: Click on “Read” button in page “para1” on parameters settings toolbar, read out the current parameters in the AFSS module. The default parameter of “ V correct ” is “ 0 ”.It means that the voltage display without calibration. If the voltage is need to be correct, please calculate the voltage ratio "C" according to the above steps, then enter into the “ V correct ” editing box , click on ” Set ” button to confirm the setting of this parameter (For example : 102) . After finish the power voltage calibration, please click on “Save” button to save the setting to the AFSS module, otherwise the autopilot will restore the original settings after power off.



(7) After the voltage calibration success, the voltage display on the GCS (“BAT1”) is the power voltage which have been calibrated .

Without changing any devices (FY-41AP/FY-41AP Lite AFSS module or power manager), voltage calibration and “Save” operation only need for once .

—— END ——

Note: We reserve the right to change this manual at any time! And the newest edition will be shown on our website www.feiyu-tech.com.