

PRO GUARD + V2

ACTIVE BACKUP GUARD W/ BUILT IN 2s LI-PO CHARGER



Installation:

1. Connect the Throttle Output from ESC to the 7.4v ESC (bottom) set of pins and if your ESC has a slave, 2nd power output (RPM signal), connect that to the 7.4v Main (top) set of pins, making sure to match polarity.

2. Connect the included power switch to the Switch port, making sure to match polarity.

2. Connect a Male to Male Cable to the pins labeled ESC then connect the other end to the Throttle port on your Rx or FBL Controller.

4. Connect a Male to Male Cable to the pins labeled RX1 then connect the other end to your Rx or FBL Controller empty port that accepts power, or if using the RPM sensor, to the RPM port.

5. Connect the Audible or Visual Accessory to the ACC port, making sure to match polarity.

*** If the FBL Controller uses a single wire RPM connection, remove the signal pin (orange wire) from the end of the RX1 cable and insert it into the included servo connector. Please refer to the FBL manual for proper connection.

Operation:

1. Plug in the Aux Battery, then power on the aux input with the included remote switch. The Led on the switch and external LED or BUZZER will be active at this time and electronics will initialize.

2. Power on the ESC, then make sure the Status has switched from the Red LED to the Green LED. Also verify that the optional external alert is also now off.

4. GO FLY!!!

5. After flight, disconnect power from ESC. Status LED will switch from Green to Red, then power off the aux input to power down completely.

The Pro Guard + V2 is an ACTIVE Switching Backup Guard for R/C Helicopters and is specifically designed for use in HV Setups.

If at any time the Pro Guard + V2 sees a voltage lower than 4.5v on the Main Input for any reason, it will automatically switch over to use the connected Backup Battery without any loss of control. At this time, the connected Audible or Visual Accessory will activate to indicate a main power failure. If the Main Input voltage rises to 6.5v or above, it will switch back to the Main Input.

The Pro Guard + V2 has a built in 2s Lipo Charger to maintain the Backup Battery voltage to 8.2v-8.4v at up to 1A current, so there is one less thing to worry about. Charging is indicated by the Charge Status LED.

IF YOU HAVE ANY QUESTIONS FOR INSTALLATION, PLEASE CONTACT US VIA OUR SUPPORT SYSTEM LOCATED ONLINE AT:

[HTTP://SUPPORT.PERFECTREGULATORS.COM](http://support.perfectregulators.com)