

## Lipo Fuel Gauge - Operation Manual Voltage Tester for 1-4 cell Lipo (Lithium Polymer) Batteries Part # FGAUGE-14

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The Common Sense RC Lipo Fuel Gauge is perfect for checking your battery's charge status when your RC model is either on the ground or in the air. The simple color coded LEDs are easy to read and are visible from several yards away. The Lipo Fuel Gauge will extend the life of your lipos by warning you about potential over-discharging and voltage imbalance between cells.

1. Plug your Lipo battery's balance connector into the 5-pin side of the Lipo Fuel Gauge. Be sure to align the battery's black (negative) wire with the pin closest to the "J1" marking on the Lipo Fuel Gauge's circuit board. If the battery is plugged in with the polarity aligned incorrectly or reversed, the Lipo Fuel Gauge's LEDs will not light up.
2. Once the battery is plugged in correctly, the Lipo Fuel Gauge's four rows of LEDs will cycle on and off once, then all four rows will flash three times. The Lipo Fuel Gauge will then display one row of illuminated LEDs for each cell wired in series in your pack (one row for a 1S pack, two rows for a 2S pack, etc.) The blue status light near the battery's connector will begin flashing intermittently, indicating that a proper connection has been made.
3. There are eight LEDs in each row - four green, two yellow and two red. The more LEDs that are lit in a given row, the higher the voltage of the corresponding cell. You can use the LED colors as a guide to how much run time you have left –

	LED #1	LED #2	LED #3	LED #4	LED #5	LED #6	LED #7	LED #8
<b>LED Color</b>	Red	Red	Yellow	Yellow	Green	Green	Green	Green
<b>Cell Voltage</b>	3.4V	3.5V	3.6V	3.7V	3.8V	3.9V	4.0V	4.1V

**When a cell's voltage gets below 3.3V, all LEDs in the corresponding row will start blinking at the same time.**

**When a cell's voltage gets below 3.1V, all LEDs in the corresponding row will turn off.**

We recommend ending your run when all the LEDs in any row start blinking and your lipo battery is under load (not at resting voltage). This will safeguard against going below the minimum 3.2V per cell under load that is recommended in the instructions for Common Sense RC Lipo batteries. Using lipo batteries beyond this point can severely limit the battery's lifespan.