

GAMMATRONIX INTEGRATED LED BATTERY CHARGE / STANDBY INDICATOR for BIKES and CARS

Specifications :

- 12v or 6v dependent on model.
- Accuracy to +/- 0.2v. 10 to 20mA (depending on LED colour/status) in operation
- Just 0.5mA (500uA) when vehicle idle.
- Microprocessor controlled Tri-Colour LED indicates six different status conditions.
- Blinking effect during storage looks like an Alarm System LED for added security
- Internally fused (self resetting) and reverse protected - Unit will operate down to 3.8v and up to 30v.

Function :

Great for motorcycles, and vehicles stored long term. When riding/driving and charging, light will show green to indicate normal alternator and battery operation. 30 secs after charging stops (vehicle parked) unit will enter low current (0.5mA / 500uA) mode to show battery status whilst vehicle in storage. LED will blink green, yellow or red to show stored state battery condition. Added benefit that LED blinking looks like a vehicle alarm. If indicator is anything other than green in operation, this indicates an abnormality. Flashing red/green indicates alternator overcharging, whilst flashing during vehicle operation indicates the alternator is not providing sufficient charge to the battery

The device makes a 'rolling average' of several measurements over the last 2 seconds, which will give a degree of immunity to false indications due to fluctuating battery loads. 6v versions run at half of the levels below.

15v	13.2v	12.8	12.5	12.1	11.8	11.5
Red/Flash	Gn Flash	Green	Green 'Blink'	Yell 'Blink'	Red 'Blink'	Blank (No Display)

Fitting :

The device is supplied as a LED/PCB assembly, with a removable mounting bezel. Once clipped into a mounting hole, the bezel holds the LED in place via its internal mounting clips. (You may also if desired dispose of the clip and mount the LED with your own arrangement into a 10mm hole.) The unit requires installing in a 14mm dia hole and requires approx 35mm depth behind the surface of the panel (2mm panel thickness assumed).

To operate under "Standby" conditions when vehicle idle, the unit requires a permanent power (live) feed. If you only want to monitor the vehicle when running, connect to a switched feed from the ignition switch. The LED will then be off when the ignition is off.

Connect the RED wire to supply positive, and the BLACK wire to supply negative. OBSERVE POLARITY OR UNIT MAY BE DAMAGED by long term supply reversal. The most accurate reading is obtained if connected directly to the battery and not through existing wiring which may be carrying heavy currents that may cause voltage drops at the LED. The unit is internally fused but should have the wiring to it protected by an additional suitable local fuse at a point close to the battery, rated 2A or less. Your installation may already have such a fuse fitted. The unit is fully waterproofed, but it may be an advantage to use a small amount of sealant around the bezel to prevent water gaining entry to your dash enclosure past the bezel.

The unit has a high degree of inbuilt interference suppression, but in very noisy electrical environments it may require additional in-line suppression which can be purchased from car radio installation stores.

Safety, end of life, and warranty statement



This unit is an installable component and not a complete system in its own right and therefore requires installation. The installation, use and suitability in a given application is the responsibility of the installer. Any damages or consequences are limited to the replacement of the unit under the 12 month guarantee. Do not allow the unit to become damaged, dismantled, or make modifications to the enclosure or internal parts. Do not use the unit outside of its operating voltage specification (according to model.) At end-of-life this product should be taken to suitable recycling facilities and not put into general household rubbish