

GAMMATRONIX BATTERY MONITOR (Model 'A')

Specifications :

Voltage : 12v (Max 16v) or 24v DC (Max 30v) dependent on model. Accuracy to +/- 0.1v.

Power Consumption : 2 to 8mA (2mA with single LED operation).

Internally fused (self resetting) and reverse voltage protected.

Version	3 rd green	2 nd green	1 st green	Yellow	Orange	Red	Red slow	Red fast
12v DC	12.5v	12.1v	11.8v	11.5v	11.2v	11v	10.7	< 10.7
24v DC	25v	24.2v	23.6v	23v	22.4v	22v	21.4v	< 21v

Installation :

The unit has three wires:

Red	Battery +ve
Blue	Battery -ve
Yellow	Display Mode : 0v for single LED mode, +12/24v for multi-LED mode

Connect the yellow wire (or leave unconnected) to 0v for low current, single LED mode, or connect to +12/24v for multi-LED 'bargraph' mode. The unit is internally fused but should have the wiring to it protected by a suitable local fuse. The unit has inbuilt interference suppression, in very noisy electrical environments it may require additional in-line suppression which may be purchased from car radio installation stores.

The unit is intended for surface mounting via the backing tape provided. It may also be mounted behind a panel with LEDs exposed through suitable holes. LEDs are on a 7mm pitch and require a 5.5mm clearance hole if mounted in this way.

Operation:

The LED Battery Monitor displays the current charge status of a lead-acid car type battery. In single LED mode, the LED will 'travel' to the current battery status level. In multi-LED mode, all LEDs will light to the current battery status level.

The red LED has multi-functional capability. Once the red LED illuminates, the battery is considered discharged. If further current is drawn, it may deep-discharge and reduce future battery life. Further discharge is indicated by slow flashing, and critical level indicated by rapid flashing of the red LED.

Lead acid batteries exhibit different off-load voltages when discharged (or 'flat') than when under load. A flat battery may read close to 12/24v, but will immediately collapse to a few volts if current is drawn. The LED Battery Monitor is intended to give a correct reading for a battery UNDER LOAD. As with any other voltmeter, it will give an erroneous high reading if the battery is not connected to a load due to the battery's internal resistance off-load effects.

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, immersed in water, 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.