

Digital Protractor

ABSTRACT

Battery level indicator indicates the status of the battery just by glowing LED's. For example six LED's are glowing means battery capacity 60% remains. This circuit is designed based on LM3914 IC (Integrated chip). This IC is LED dot/bar display driver.

Working

The heart of this battery level indicator circuit is LM3914 IC. This IC takes input analog voltage and drives 10 LED's linearly according to the input analog voltage. In this circuit, there is no need of resistors in series with LEDs because the current is regulated by the IC.

Components

- LM3914 IC
- LED's -10 (Red – 3, Yellow – 4, Green – 3)
- SPST Switch
- Resistors – 18K Ω , 4.7K Ω , 56K Ω
- Potentiometer – 10K Ω
- 12V Battery (to test)
- Connecting wires

Circuit Diagram



