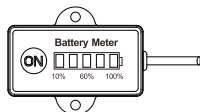


# OPERATING INSTRUCTIONS

## Battery "Fuel" Gauge



Please read and understand the following notices carefully, and correctly install and operate the product before using.



1. Please make sure to refer to the installation instructions in the Operating Instructions to avoid damage caused by installation errors.
2. Failure to install and operate the unit in accordance with these instructions may result in damage or injury.
3. Do not pull the wiring when using it to prevent falling off or poor contact happened.
4. Please install the product in a proper location to avoid the possibility of this product being hit and prevent damage to the product.
5. Installation and startup must performed by skilled personnel.
6. If instrument failure or malfunction may cause personal injury or material damage, use additional safety measures such as limit switches, guards, etc.
7. This instrument was manufactured and tested according to the applicable technical standards. It complies with all the safety regulations as shipped from the factory.
8. Please use the product at the specified temperature, high temperature environment may cause damage to the product.

### Product Accessories List

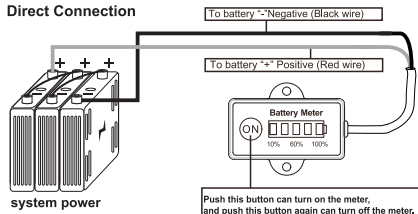
<b>1</b> product*1 	<b>2</b> double-sided tape*1 
<b>3</b> cable tie*2 	<b>4</b> user manual*1 
<b>5</b> screw*2 	

### Product Operation

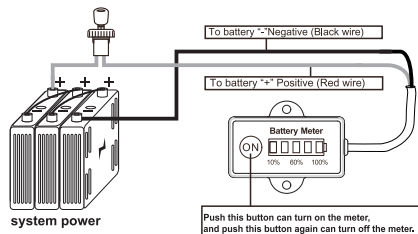
#### 1. Product connection:

- a) The work voltage of battery fuel gauge is DC12V/24V, please check the battery voltage before using, too high voltage will cause damage to the product.
- b) The battery fuel gauge has 2 kinds connection methods, please check the diagram as follows.

#### Direct Connection



#### Key Switch Connection



The gauge LED bar will scan from "10%" to "100%" when connected power, and then will stay in the right bar.  
(It means that the battery fuel gauge is connected correctly)

#### 2. Product usage:

- a) The battery fuel gauge is displayed in 5 bars, and respectively represent the different battery capacity in the battery.
- b) When the battery has different battery capacity, the working status of the indicator light is different, please check the diagram as follows:

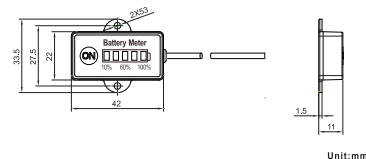
LED BAR	Display Status	Battery Capacity
BAR 1	LED bar 1 flashing	Battery voltage has been discharged to 90% of their capacity
BAR 1	LED bar 1 lighting	Battery voltage has been discharged to 80% of their capacity
BAR1+BAR 2	LED bar 1 lighting and LED bar 2 flashing	Battery voltage has been discharged to 70% of their capacity

LED BAR	Display Status	Battery Capacity
BAR1+BAR 2	LED bar 1-2 lighting	Battery voltage has been discharged to 60% of their capacity
BAR1+BAR 2+BAR 3	LED bar 1-2 lighting led bar 3 flashing	Battery voltage has been discharged to 50% of their capacity
BAR1+BAR 2+BAR 3	LED bar 1-3 lighting	Battery voltage has been discharged to 40% of their capacity
BAR1+BAR 2+BAR 3+BAR 4	LED bar 1-3 lighting led bar 4 flashing	Battery voltage has been discharged to 30% of their capacity
BAR1+BAR 2+BAR 3+BAR 4	LED bar 1-4 lighting	Battery voltage has been discharged to 20% of their capacity
BAR1+BAR 2+BAR3+BAR 4+BAR 5	LED bar 1-4 lighting led bar 5 flashing	Battery voltage has been discharged to 10% of their capacity
BAR1+BAR 2+BAR3+BAR 4+BAR 5	LED bar 1-5 lighting	Battery capacity is full

#### Voltage percentage correspondence table

Voltage	1	2	3	4	5	6	7	8	9	10
12V	10.38	10.53	10.74	10.95	11.16	11.37	11.58	11.79	12	12.3+
24V	20.76	21.06	21.48	21.9	22.32	22.74	23.16	23.58	24	24.6+

### Product Dimension



### Product Specifications

Item	Parameter&Introduction
Capacity	5 Green color LED for indicator
System Voltage	12/24V ( Depending on model )
Operating Voltage	+/- 25% of nominal voltage
Operating Current	≤ 16mA
Operation Temperature	-10 C to +50 C
Storage Temperature	-40 C to +70 C
Product Size	42x33.5x11mm
Wire Length	1.25m
Applicable Battery	Lead-acid Battery ( Depending on model )