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OBDMONSTER BM210

OBDMONSTER BM210 Battery Meter Instruction Manual

Model: BM210 | Brand: OBDMONSTER

1. Introduction

The OBDMONSTER BM210 Battery Meter is designed to monitor the remaining capacity of various battery types. It features a 10-segment LED bar graph display, providing clear visual feedback on battery status. This meter is compatible with 12V, 24V, 36V, 48V, 60V, and 72V battery systems, making it suitable for a wide range of applications including cars, SUVs, pickups, boats, golf carts, RVs, motorcycles, lawn mowers, forklifts, and other battery-powered devices.
The device incorporates a PVC waterproof screen protector and bright back-light for readability from different angles. It also includes reverse connection protection to prevent damage if wired incorrectly.



Figure 1: OBDMONSTER BM210 Battery Meter

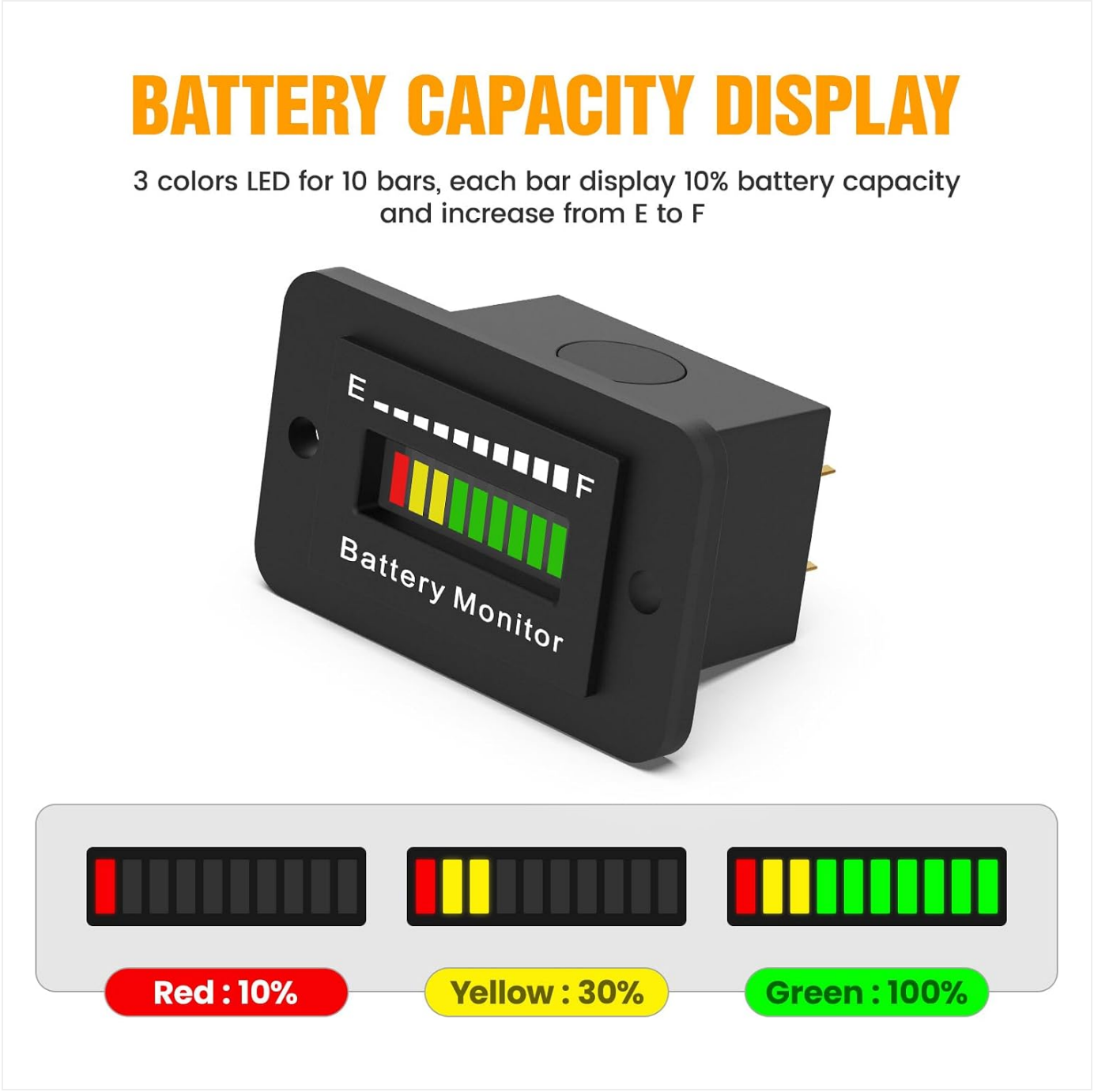


Figure 2: The 10-segment LED display shows battery capacity. Red indicates 10% (need to charge soon), Yellow indicates 30% (low battery), and Green indicates 100% (sufficient battery).

2. Setup and Installation

2.1 Voltage Setting (DIP Switch)

The BM210 battery meter features a DIP switch on the back to adjust for the corresponding battery voltage. Incorrect voltage settings can lead to inaccurate readings or the device continuously showing full power. Refer to the diagram below to set the correct logic level for your battery system.



Figure 3: DIP Switch settings for various voltages. Toggle the switches (labeled 0, 1, 2, 3) up or down to match your battery's voltage (12V, 24V, 36V, 48V, 60V, 72V).

2.2 Wiring Connection Methods

The BM210 offers two primary wiring methods: Direct Connection and Key Switch Connection. The device comes with necessary installation accessories for easy setup.

- **Direct Connection:** In this method, the LED lights will remain on continuously when connected to the battery, as there is no switch to control power.
- **Key Switch Connection:** This method allows the LED lights to be turned off via an external switch, providing control over when the display is active.

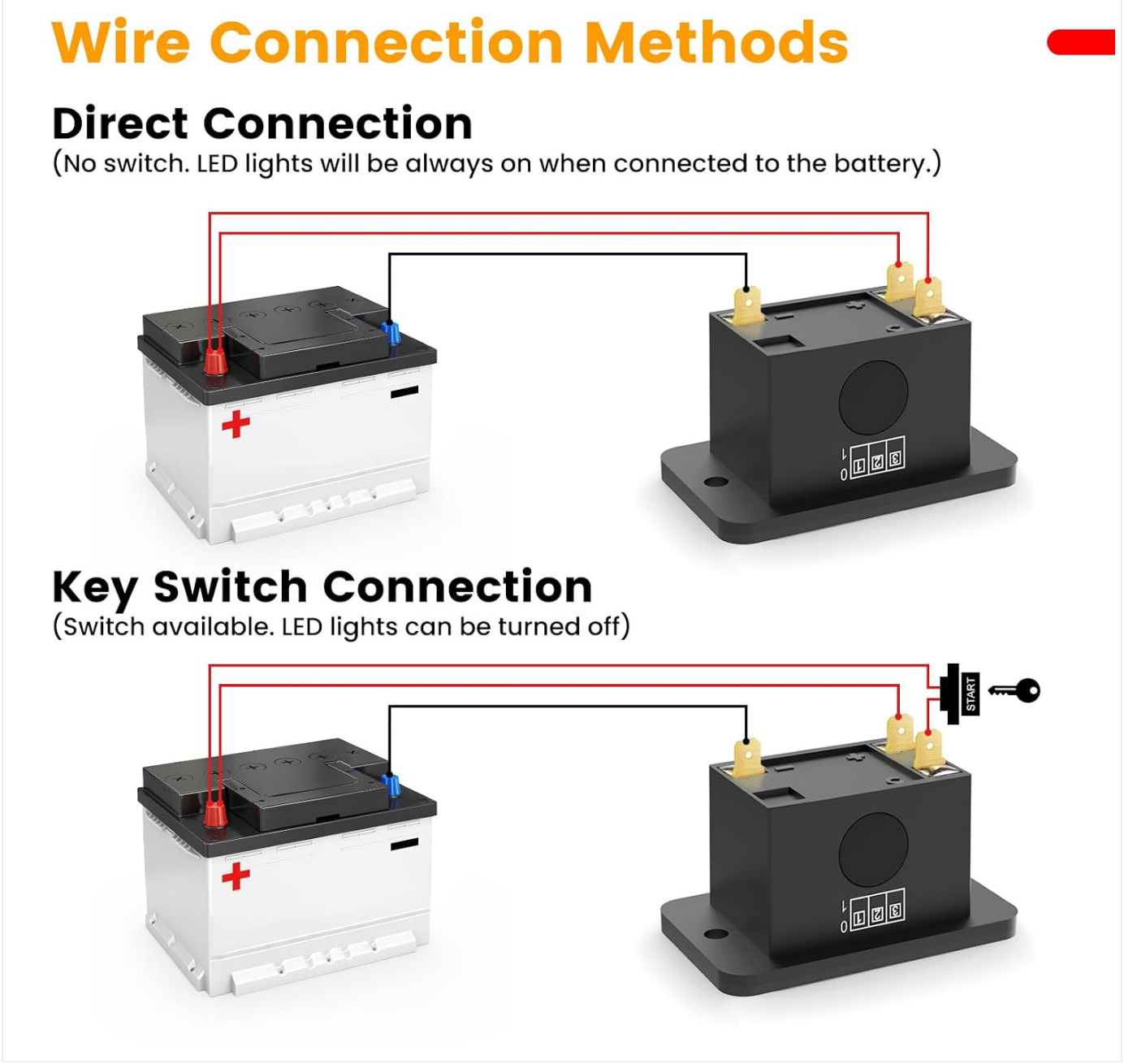


Figure 4: Diagrams for Direct Connection (LEDs always on) and Key Switch Connection (LEDs can be turned off).

Safety Note: The BM210 features reverse connection protection, meaning it will not be damaged if the positive and negative terminals are connected in reverse.

2.3 Mounting the Meter

The meter is designed for panel mounting. If a slot is available, align the meter and connect the lines. If no slot is present, you can use the packaging cardboard as a ruler to mark and cut a 1.34" x 0.87" hole for installation.



Figure 5: Installation guidance for existing slots and creating new slots.

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Video 1: This video demonstrates the physical components, DIP switch adjustment, and wiring connections for the BM210 battery meter.

3. Operating Instructions

Once properly installed and connected, the BM210 battery meter will display the battery's charge level using a 10-segment LED bar graph. The display updates after 10 seconds.

- **1 Red Segment:** Indicates approximately 10% charge or less, suggesting the battery needs charging soon.
- **2 Yellow Segments:** Indicates approximately 30% charge, signifying a low battery level.
- **7 Green Segments:** Indicates a sufficient battery charge, up to 100%.

Refer to the Operating Voltage table for detailed voltage thresholds corresponding to each display segment for different battery systems.



Operating Voltage

Voltage	≤1	2	3	4	5	6	7	8	9	10
12V	10.38	10.59	10.8	11.01	11.22	11.43	11.64	11.85	12.3	≥ 12.3
24V	20.76	21.18	21.6	22.02	22.44	22.86	23.28	23.7	24.6	≥ 24.6
36V	31.14	31.77	32.4	33.03	33.66	34.29	34.92	35.55	36.9	≥ 36.9
48V	41.52	42.36	43.2	44.04	44.88	45.72	46.56	47.4	49.2	≥ 49.2
60V	51.9	52.95	54	55.05	56.1	57.15	58.2	59.25	61.5	≥ 61.5
72V	62.28	63.54	64.8	66.06	67.32	68.58	69.84	71.1	73.8	≥ 73.8
Display Mode	Only 1# lit	Only 1#-2# lit	Only 1#-3# lit	Only 1#-4# lit	Only 1#-5# lit	Only 1#-6# lit	Only 1#-7# lit	Only 1#-8# lit	Only 1#-9# lit	All lights on
Display Colors Of LED	Red	Red Yellow	Red Yellow	Red Yellow Green	Red Yellow Green	Red Yellow Green	Red Yellow Green	Red Yellow Green	Red Yellow Green	Red Yellow Green
Delay	Update after 10 seconds									

Figure 6: Operating Voltage table showing voltage ranges for each LED segment across different battery voltages (12V, 24V, 36V, 48V, 60V, 72V).

4. Maintenance

The BM210 battery meter is designed for durability and features a PVC waterproof screen protector with an IP65 waterproof rating. This allows it to withstand various weather conditions, including rain and snow.

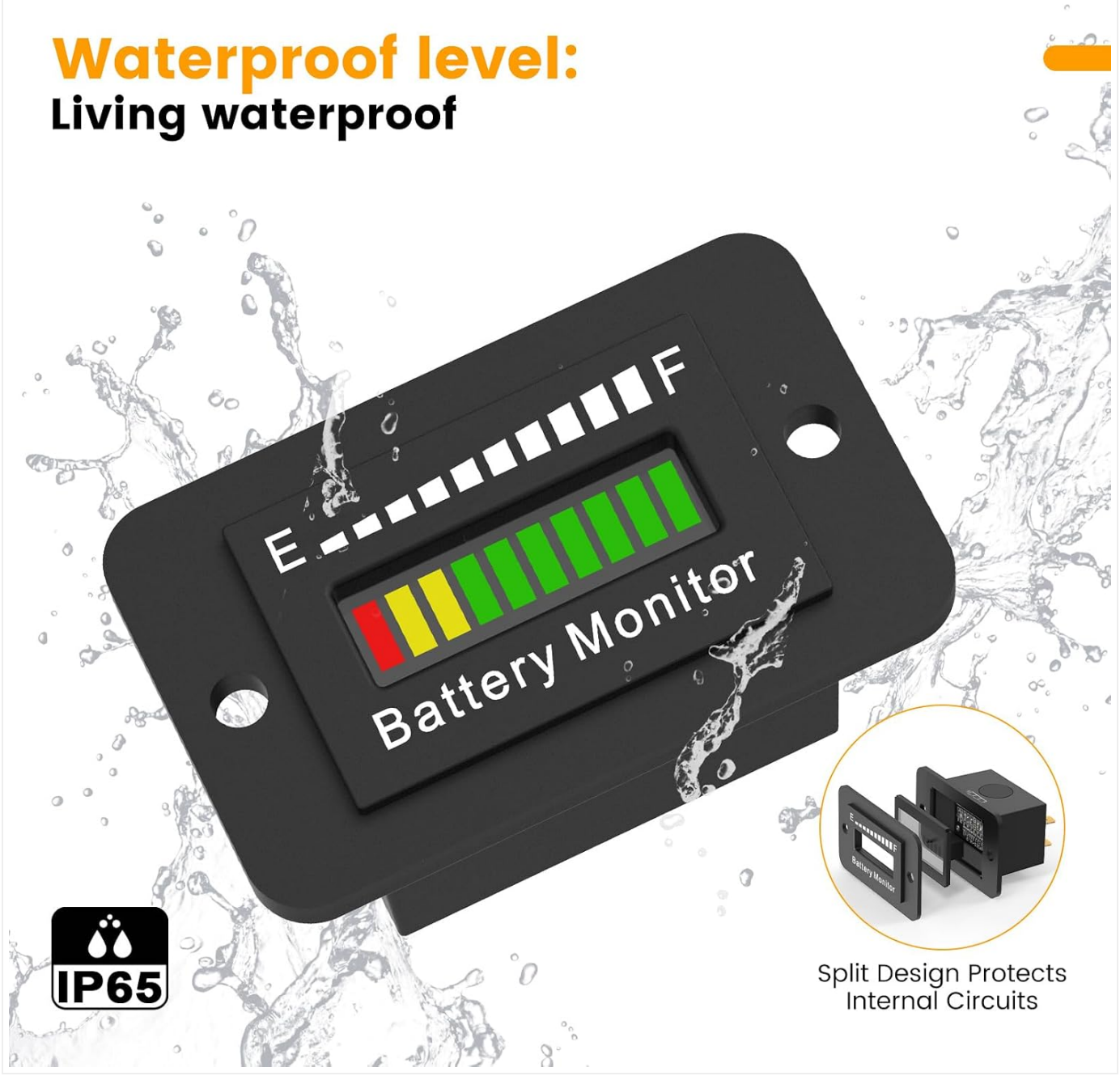


Figure 7: The BM210 battery meter features an IP65 waterproof rating, protecting it from water splashes.

To maintain optimal performance, ensure the device is kept clean and free from excessive dirt or debris. No specific user-serviceable parts are inside.

5. Troubleshooting

Device Shows Full Power Continuously

If the device consistently displays full power even after use, it may indicate improper use or incorrect voltage settings. Verify that the DIP switches on the back of the unit are correctly configured for your battery's voltage (refer to Section 2.1, Figure 3). Adjust the switches as needed to match your system's voltage.

6. Specifications

Feature	Specification

Brand	OBDMONSTER
Model	BM210
Power Source	Battery Powered
Compatible Voltages	12V, 24V, 36V, 48V, 60V, 72V
Min. Operating Voltage	12 Volts
Maximum Operating Voltage	72 Volts
Measurement Type	Voltmeter
Display Type	10-segment LED Bar Graph
Waterproof Rating	IP65
Compatible Devices	Cars, SUVs, Pickups, Boats, Golf carts, RVs, Motorcycles, Lawn mowers, Forklifts, Other battery-powered devices

7. Warranty and Support

OBDMONSTER offers a 24-month warranty for the BM210 Battery Meter. We are committed to customer satisfaction with a 100% no-questions-asked return policy.
For any questions or technical assistance regarding your battery gauge indicator, please contact us via Amazon. Our professional technical team aims to resolve your issues within 24 hours.

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