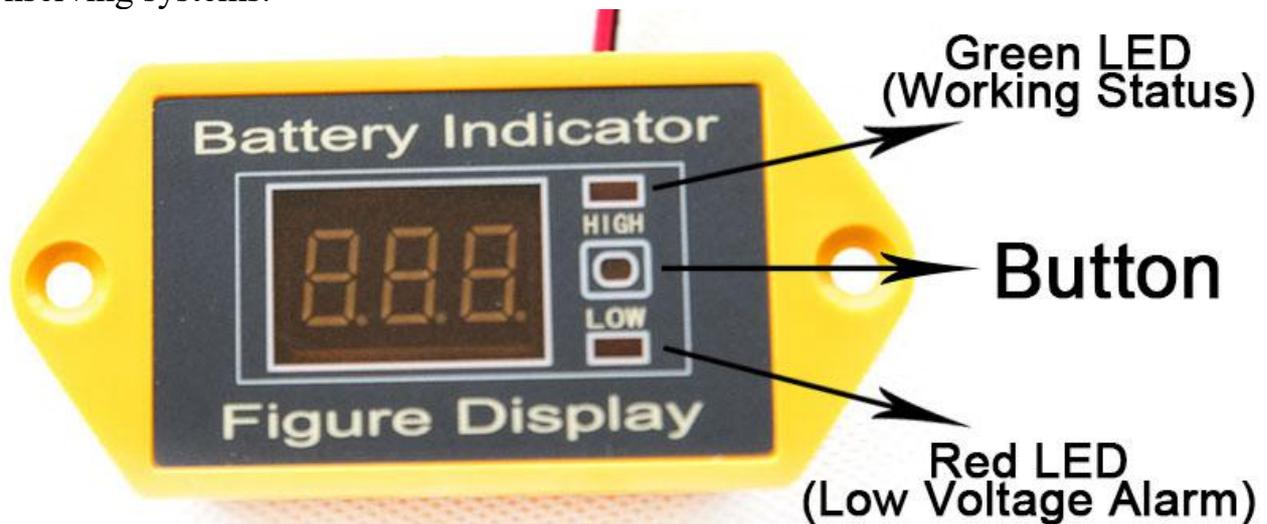




TQZN-12V Adjustable Battery Meter
TQZN-24V Discharge Level Indicator

Description:

With optional output function, the meter models TQZN-12V and TQZN-24V are used as battery charging / discharging level indicators for electric vehicle / vessel, battery charger, solar power generating system and other battery power (DC source) driving / conserving systems.



Features:

1. Accurate digital voltage display
2. Acoustic & light alarm
3. Adjustable alarm voltage setting
4. Low power consumption:
 - (1) Working current: less than 15mA
 - (2) Alarm current: 25mA ± 3mA
5. Output type (optional; applied for switching automatically on / off a DC relay):
 - (1) Over-charge protection: when the voltage is higher than the high voltage setting
 - (2) Low voltage protection: when the voltage is lower than the low voltage setting
 - (3) Low-voltage and over-voltage protection (typical application: photovoltaics charging / discharging controller)
6. Working temperature: -20°C ~ 60°C
7. Working environment humidity: ≤ 85%
8. Two shell color options:
 - (1) Yellow
 - (2) Green

Adjusting:

1. When the power is switched off, press down the button and hold it.

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2. Switch on the power, and release the button. When the voltage display flashes, the meter is in the setting mode.
3. Press down the button and release it, each press increases 0.1V of the voltage setting. Keep pressing and releasing the button, till get the expected value.
4. Press down and hold the button till an alarm sound, then the meter is in operation mode.

Charateristics:

12V meter:

1. Working voltage: 8.0 - 16.0V DC
2. Low voltage alarm: 9.0 - 11.5V (default setting 10V)
3. Protection voltage: 0.5V lower than alarm setting
4. Reset voltage: higher than 11.5V

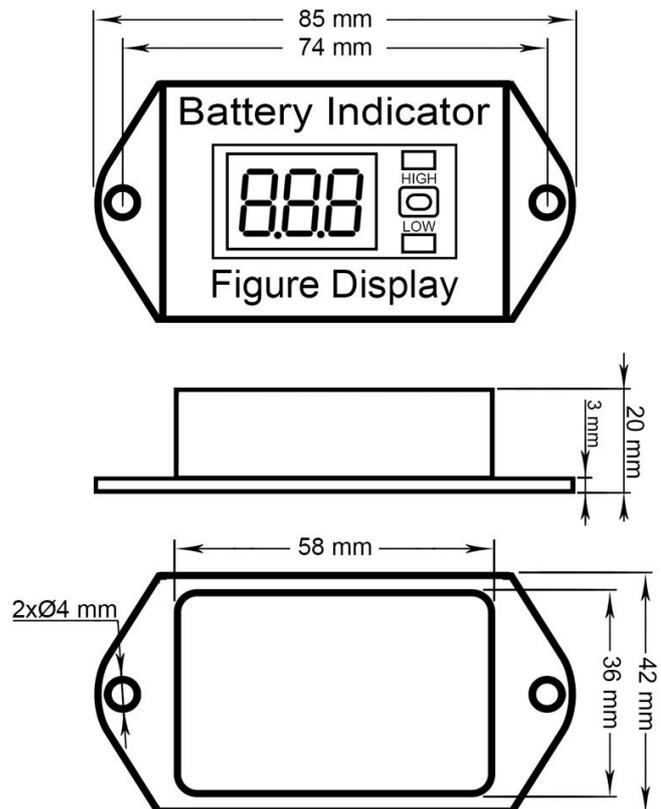
24V meter:

1. Working voltage: 16.0 - 32.0V DC
2. Low voltage alarm: 18.0 - 23.0V (default setting 20V)
3. Protection voltage: 1.0V lower than alarm setting
4. Reset voltage: higher than 23.0V

Output options:

1. No output (only alarm)
2. Transistor output (max. current: 1A)
3. MOSFET output (max. current: 4A; solar power conservation system)

Dimensions:



Wiring:

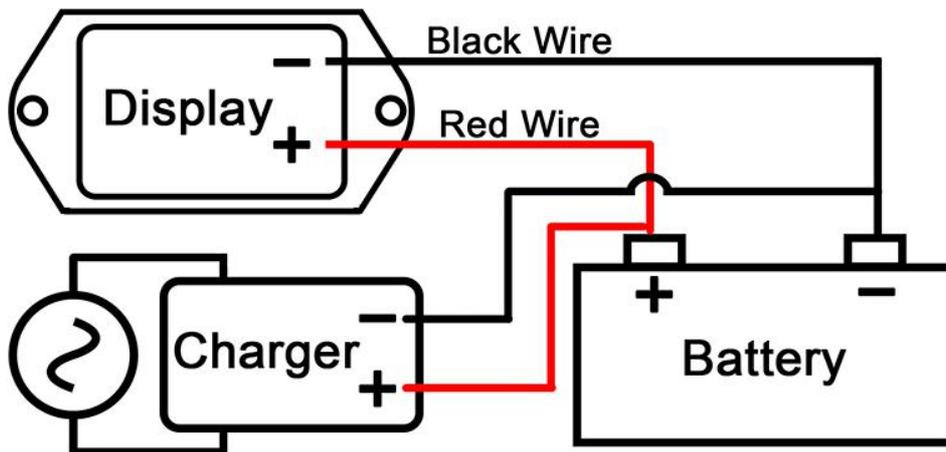
The wiring of TQZN series meters is simple:

1. Red wire to the power source positive terminal (B+)
2. Black wire to the power source negative terminal (B-)
3. Optional brown wire as the output of meter

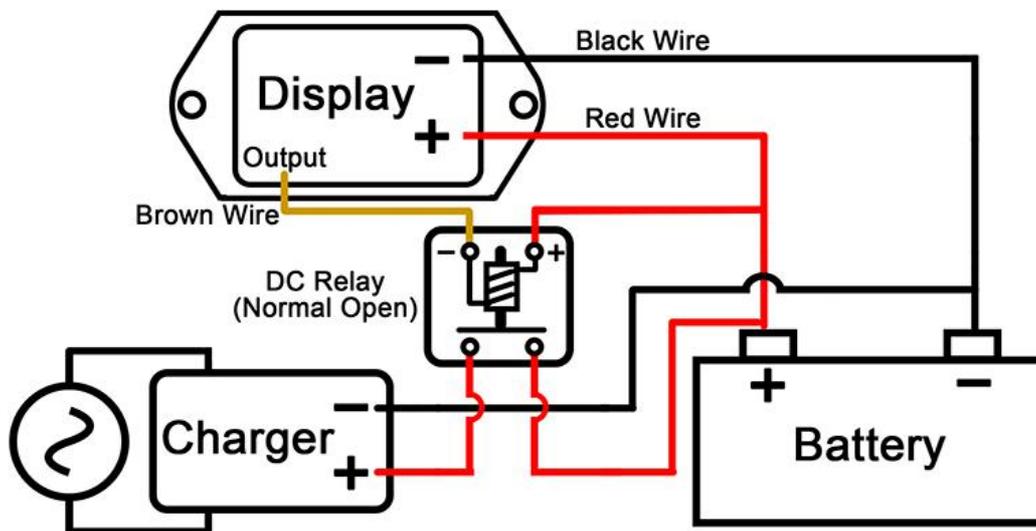


TQZN-12V Adjustable Battery Meter
TQZN-24V Discharge Level Indicator

Two-Wire Version (No Output)



Three-Wire Version (With Output, Over-Discharge Protection)



Applications:

1. Battery charging system
2. Electric forklift / pallet truck / AGV
3. Electric marine vessel
4. Golf cart
5. DC power source
6. DC power conserving system
7. etc.