

User Manual

Battery Monitor



Please read this manual carefully before operation.

INSTRUCTIONS

1. The input voltage range of this device is 3V ~ 35V, compatible with 6V/12V/24V batteries of all types. Excessively high input voltage will damage the device.
2. Grant all required permissions during App installation. Some functions will not work if permissions are denied.
3. Certain features require enabling auto-start and background operation for the App.

TECHNICAL SPECIFICATIONS

1. Product Name: Battery Monitor 360 Pro
2. Bluetooth Version: 5.1 (backward compatible with Bluetooth 5.0/4.2/4.0)
3. Bluetooth Name: SmartPro

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4. Input Voltage: DC 3V ~ 35V
5. Voltage Accuracy (3V ~ 35V): $\pm 0.03V$
6. Operating Current (Bluetooth disconnected from App): $< 0.5mA$
7. Operating Current (Bluetooth connected to App): Approx. 6 mA
8. Temperature Measurement Accuracy ($-10^{\circ}C \sim +85^{\circ}C$ / $14^{\circ}F \sim 185^{\circ}F$): $\pm 0.5^{\circ}C$ ($\pm 0.9^{\circ}F$)
9. Temperature Measurement Accuracy ($-55^{\circ}C \sim +125^{\circ}C$ / $-67^{\circ}F \sim 257^{\circ}F$): $\pm 2^{\circ}C$ ($\pm 3.6^{\circ}F$)
10. Operating Temperature: $-30^{\circ}C \sim 90^{\circ}C$ ($-22^{\circ}F \sim 194^{\circ}F$)
11. Reverse Polarity Protection (up to 35 V): Built-in
12. Short Circuit Protection (up to 35 V): Built-in
13. Dimensions: 71mm (L) $\times$ 46mm (W) $\times$ 21mm (H)

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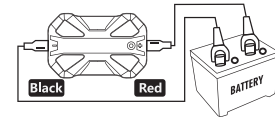
MAIN FUNCTIONS

1. Supports battery power display, real-time display of battery voltage and temperature.
2. Supports cranking system and charging system test for 12V cars and 24V trucks.
3. Battery power abnormality alert.
4. The App can display relevant data and driving habits for each trip.
5. Auto-save parking location with find-car navigation function.
6. The module can store historical data (voltage, battery level and temperature) for up to 83 days, with data logged every 10 minutes.
7. The mobile App stores historical data from the last 6 months.

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DEVICE INSTALLATION

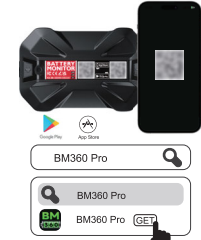
1. Firmly attach the negative connector (Black) to the negative battery terminal. (Fig 1)
2. Firmly attach the positive connector (Red) to the positive battery terminal.
3. Fix the device to the battery case with the supplied double-sided tape.



(Fig 1)

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APP INSTALLATION



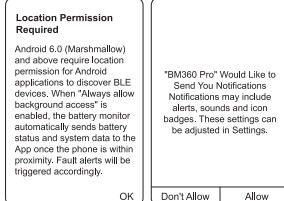
(Fig 2)

(Fig 3)

1. Scan the QR code of the product and download the App. (Fig 2)
2. For Android phones, go to "Google Play", and for iPhones, go to "App Store" Search for "BM360 Pro" to download the App. (Fig 3)

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ANDROID / IOS PERMISSION SETUP



(Fig 4)

Notifications

1. You can configure abnormal data notifications and icon alerts in the settings.
2. When running the application for the first time, the App will ask for some required permissions. All of these are necessary, please allow all required permissions. (Fig 4)

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BM360 Pro App USER MANUAL & TROUBLESHOOTING GUIDE

PERMISSION INSTRUCTIONS

- Location Permission (Android Devices): The Android App needs location access for Bluetooth scanning and vehicle finding functions. Disabling this permission will make the device undetectable or slow down Bluetooth scanning.
- Background & Auto-start Permissions: The App must be able to start itself and run in the background to obtain location data. These permissions need to be enabled in the phone's settings (see the last page for brand-specific steps).

DEVICE ADDITION

- Device name can be manually entered and edited when adding a device.

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TROUBLESHOOTING GUIDE

FAQ & SOLUTIONS

Phenomenon	Solution
Bluetooth connection requires a PIN code.	Ignore the PIN code pop-up. No PIN code is required to connect this device. The App will reconnect automatically after restarting.
Bluetooth connection failure	Ensure Bluetooth is enabled on your phone and no other devices are connected nearby. Try restarting Bluetooth or your phone, and avoid connecting too many Bluetooth devices at the same time.
No trip records or parking location data.	• Enable GPS on your phone. • Make sure the App has location permission. • Ensure the App is running and the device is connected.

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	• Turn on GPS tracking service in App settings.
Battery level display is inaccurate	Battery data will be calculated after the device runs for a period of time.
No vehicle cranking data	Starter batteries including lead-acid, lithium iron phosphate and other types are applicable to 12V vehicles and 24V trucks, which can meet the requirements of vehicle starting. If the App fails to receive startup data, it means no starting action has occurred and no relevant data is generated.
Vehicle charging system test failed	Perform the test while the engine is running. This function only works with conventional alternators, not smart alternators. If the test still fails, please consult the vehicle manufacturer.

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Vehicle location is intermittently available, missing or unavailable.	Enable auto-start and background operation permissions for the App. These are required to obtain continuous location data.
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BRAND-SPECIFIC PERMISSION SETTINGS

• Huawei Phones

Go to Settings > Apps > App management, locate the BM360 App, enter Launch management, then enable Auto-launch, Associated launch and Background activity.

• Samsung Phones

1. Allow background activity: Go to Settings > Apps > BM360 App > Battery, and turn on Allow background activity.
2. Allow auto-start: Go to Settings > Device care > Battery > BM360 App, and disable Put app to sleep.

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User Manual

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.