

# INSTRUCTION MANUAL

Battery Sense Monitor Model: BSM888X **oricom**

## INTRODUCTION

This product is used to monitor the health of your vehicle's battery, check vehicle cranking system automatically while engine is starting and check battery charging system (alternator). Your driving log can be viewed which includes driving time and duration.

Connect Battery Monitor to the battery and download the App.

Using Bluetooth communication, you can now monitor your battery via your smartphone.

The Battery Monitor will send you a notification when you approach your vehicle.

It will help to prevent vehicle breakdowns and maximise the performance of your battery by giving you valuable information about the state of your battery.

This product is designed to be used on standard flooded type lead acid batteries. It may give incorrect information on other types of battery. Voltage measurement will always be correct on any battery.

## FEATURES

- Free Battery Sense App for iOS and Android
- Monitor up to 4 batteries
- Connects to smartphone via Bluetooth®
- Compatible with all 12/24 volt batteries\*
- IP65 Ingress protection
- Tests cranking automatically on engine startup
- Manually test charging system (alternator)
- Automatically record the time / duration of each trip
- Smartphone notifications (within Bluetooth® range)
- Short-circuit and reverse polarity protection
- Review historical data (up to 30 days)

\* For full functionality, this product should be used on standard flooded type lead acid batteries.

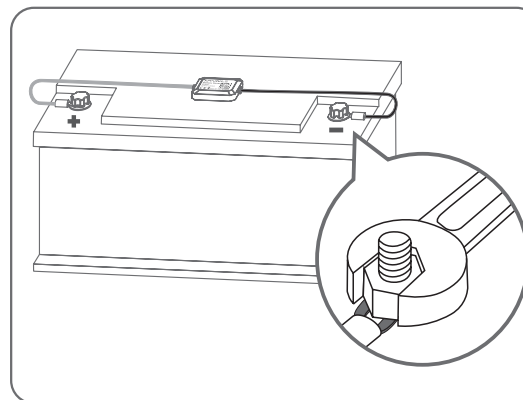
## SPECIFICATIONS

- Working Voltage: 6-30V
- Working Current: 12V 4mA, 24V 5mA
- Cable Length: 230mm x 2
- Working Temperature: -30°C ~ 85°C
- Product Size: 56x36x10mm
- Weight: 24g

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Oricom International Pty Ltd is under license.

## INSTALLATION

1. Connect the Battery Monitor to a battery



Connect positive terminal to positive pole, negative terminal to negative pole or to a suitable vehicle earth point.

Attach the product to the battery with the tape provided. Clean the area first and make sure it is in a position that the signal is not blocked.

**Warning:** Make sure that if using a metal tool, not to short the battery terminals or touch the vehicle chassis while fixing the terminals.

2. Download the App



Scan the QR code on the left to download the Battery Sense Monitor App.

Battery Monitor

Battery Monitor App is available in App Store or Google Play.



## APP OPERATION

1. Turn on bluetooth, click app icon. Add device.

Note: If you are prompted to include a password, enter 0000.

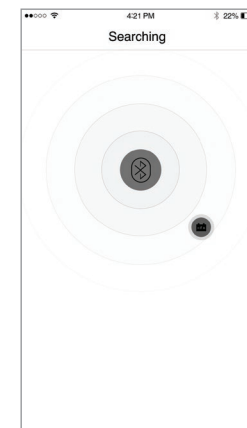
This app supports up to 4 devices.

You can monitor 4 batteries simultaneously.

The App will automatically detect the correct battery voltage, or this can be manually selected between 12 or 24V in the settings.

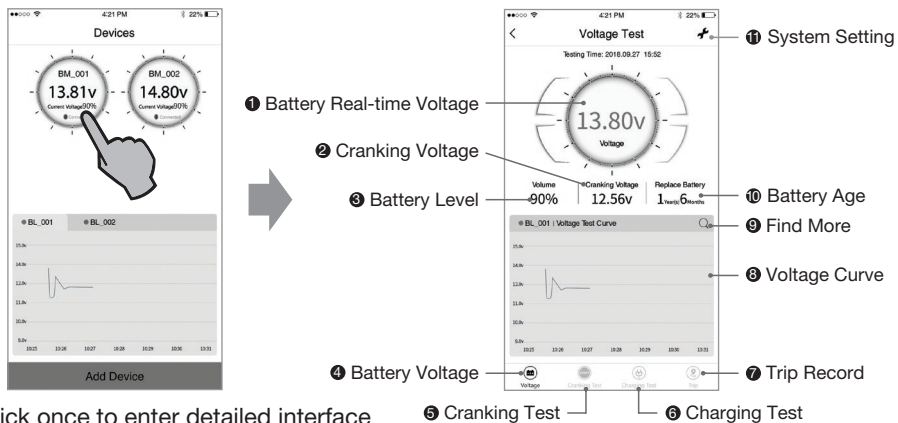
*Please allow app to access location even when app not in use. If access is not given, the product will not automatically notify you when monitoring the battery (within bluetooth range).*

*Turn notifications on to receive information on the vehicle's battery, cranking system, and fault alerts. Notifications are received when mobile phone is within bluetooth range. If notifications are turned off you will not receive this information.*



## 2. Operation

### 1) Real-Time Voltage



Click once to enter detailed interface

#### 1) Battery Real-time Voltage

Shows Battery Real-time Voltage

#### 2) Cranking Voltage:

The voltage the battery drops to during starting or cranking the engine.

For a 12 Volt system you may see a drop from 7.5 to 11 Volts.

For a 24 Volt system it often drops to 15 to 22 Volts.

#### 3) Battery Level:

Shows battery status of capacity

#### 4) Battery Voltage:

Displays current battery voltage.

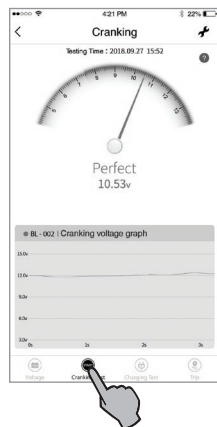
#### 5) Cranking Test:

This is done automatically on start up.

### 2) Cranking Test

Everytime you start the engine, the device will test the cranking system automatically and store the test result. If the cranking voltage is below 7.5V, it means abnormality has been detected. For a 24 Volt system, voltage under 15V will be abnormal. It might be time to replace the battery. Have your vehicle's battery checked.

Note: If using the battery monitor on a 24V battery you will need extension cables to connect the meter.

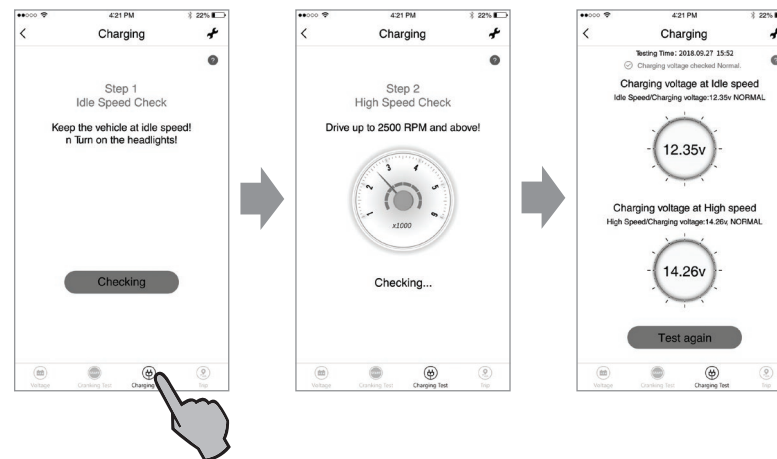


### 3) Charging Test (Alternator)

Alternator is used to recharge your car battery used to run your car's electrical system.

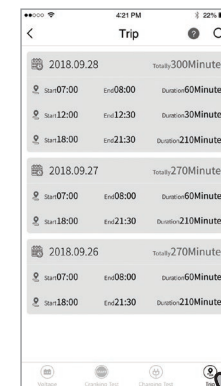
You should test your alternator to ensure it is in perfect working condition.

The easiest way to test the alternator is by using this device. Follow the instructions on the App to do the test.



### 4) Trip Time Recorder

App automatically determines travel time, start and end times. (Please Note: the trip log is for reference only, many factors can affect the accuracy of the trip recorder.)



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## Express Warranty (Australia)

This Express Warranty is provided by Oricom International Pty Ltd ABN 46 086 116 369, Unit 1, 4 Sovereign Place, South Windsor NSW 2756, herein after referred to as "Oricom".

Oricom warrants that the product is free from defects in materials or workmanship during the Express Warranty Period. This Express Warranty does not extend to any product from which the serial number has been removed or was purchased outside of Australia.

The benefits of this Express Warranty are in addition to other rights and remedies you may have under the Australian Consumer Law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. In the event of a minor failure, Oricom reserves the right to choose to repair or replace the product.

The Express Warranty Period will be a period of 12 months beginning on the date of purchase of the product evidenced by your dated sales receipt. You are required to provide proof of purchase as a condition of receiving Express Warranty services.

You are entitled to a replacement product or repair of the product at our discretion according to the terms and conditions of this document if your product is found to be faulty within the Express Warranty Period. This Express Warranty extends to the original purchaser only and is not transferable.

Products distributed by Oricom are manufactured using new materials or new and used materials equivalent to new in performance and reliability. Spare parts may be new or equivalent to new. Spare parts are warranted to be free from defects in material or workmanship for thirty (30) days or for the remainder of the Express Warranty Period of the Oricom branded product in which they are installed, whichever is longer. During the Express Warranty Period, Oricom will where possible repair and if not replace the faulty product or part thereof. All component parts removed under this Express Warranty become the property of Oricom. In the unlikely event that your Oricom product has a recurring failure, Oricom may always, subject to the Competition and Consumer Act 2010, at its discretion, elect to provide you with a replacement product of its choosing that is at least equivalent to your product in performance.

No change to the conditions of this Express Warranty is valid unless it is made in writing and signed by an authorised representative of Oricom.

Oricom will not be liable under this Express Warranty, and to the extent permitted by law will not be liable for any defect, loss, damage or injury arising out of or in connection with a:

1. Failure by you to adhere to the warnings and follow the instructions set out in this user guide for the proper installation and use of the product;
2. Willful misconduct or deliberate misuse by you of the product;
3. Any external cause beyond our control, including but not limited to power failure, lightning or over voltage; or
4. Modification to the product or services carried out on the product by anyone other than Oricom or Oricom's authorised service provider.

## How to make a claim under your Express Warranty in Australia

Oricom has a simple warranty process for you to follow:

- Please call or email our Customer Support Team, 02 4574 8888 or support@oricom.com.au.
- A Customer Support Team member will verify after troubleshooting with you if your product qualifies under warranty. If so, they will give you a Product Return Authorisation number.
- We will then email a Return Authorisation form and a Repair Notice (if necessary), together with instructions on how to return the product for warranty service.

Please note that if a Customer Support Team member advises that your product does not qualify for return, this warranty does not apply to your product. Products that are authorised to be returned to Oricom in Australia must include all of the following:

- A completed Return Authorisation form
- A copy of your Proof of Purchase (please keep your original copy)
- The faulty product, including all accessories.

Send the approved returns to:

Oricom International Pty Ltd  
Locked Bag 658  
South Windsor NSW 2756 Australia

Please note that this Express Warranty excludes expenses incurred by you in returning any faulty product to us. You must arrange and pay any expenses incurred (including postage, delivery, freight, transportation or insurance of the product) to return the

faulty product to us, however, we will arrange delivery of the repaired or replaced faulty product to you.

## **Important Information**

### **Repair Notice**

Please be aware that the repair of your products may result in the loss of any user-generated data (such as stored telephone numbers, text messages and contact information). Please ensure that you have made a copy of any data saved on your product before sending for repair. Please also be aware that products presented for repair may be replaced by refurbished products or parts of the same type rather than being repaired.

## **ORICOM CUSTOMER SUPPORT**

Oricom have a trained and dedicated team of Customer Support Representatives, each with the knowledge and resources to assist in answering your questions quickly and efficiently.

### **Oricom Support - Australia**

For all product enquiries, troubleshooting or to discuss the range of Oricom products, feel free to contact Oricom or visit our website for answers to frequently asked questions.

### **02 4574 8888**

Monday - Friday 8am – 6pm AEST

Email: [support@oricom.com.au](mailto:support@oricom.com.au)

[www.oricom.com.au](http://www.oricom.com.au)

### **Oricom Support - New Zealand**

### **0800 674 266**

Monday - Friday 10am - 8pm NZST

Email: [support@oricom.co.nz](mailto:support@oricom.co.nz)

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