

EN USER MANUAL





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INTRODUCTION

- » Keep an eye on your battery with the intAct Battery-Guard.
- Simply attach to the battery and connect to the app via Bluetooth.
- The app provides precise information about the charge status, voltage and temperature of your car battery in real time.
- Additional functions enable starting and charging tests that allow a comprehensive diagnosis of the vehicle system.
- » Up to four Battery-Guards can be monitored simultaneously, ideal for fleet management.
- The app informs you about critical conditions with individual push notifications.
- The Battery-Guard is versatile and compatible with 12V lead-acid and lithium batteries.
- Simple installation and intuitive operation make battery monitoring mobile and efficient.

TECHNICAL DATA

Supported battery types	»> Lead-acid batteries >> Lithium batteries
Compatibility	All 12V batteries, including car, motorbike and solar batteries, motorbike and solar batteries
Operating temperature	-30 bis +80°C (-22 to +176 F°)
Average power consumption	0.534mA Bluetooth not connected 1.7mA Bluetooth connected
Input voltage	6~19V
Measurement accuracy	± 0.03V
Short circuit protection	
Verpolungs-Schutz	
Certified	CE, ROHS, PAHS, REACH
Weight	32g
Dimensions	63*45*13mm (L*B*H)
Bluetooth version	5.3
Bluetooth Name	Battery Guard
App name	intAct Battery-Check
Supported operating systems	IOS and Android
Data storage	 In the device: 72 days in the device In the smartphone: unlimited storage



The **housing** and **cables** of the product are **made of fireproof materials** that can withstand high temperatures. A **safety switch** is integrated to automatically switch off the device if the current flow is too high. Reverse polarity protection is also provided to prevent damage to the battery, vehicle or device if the polarity is reversed.

INSTALLING THE APP

To download the intAct Battery Check app, first scan the QR code on the top of the device (A) or on the packaging. [®]. This will take you directly to the Apple AppStore or Google Play Store.

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(B) QR-Code on the packaging



INSTALLING THE APP

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- Download the app and open it.
- Activate the Bluetooth on your smartphone.



3 Allow the app to access the location even if you are not using the app. If this does not happen, you will not be automatically notified when a battery problem is detected.

4 Allow the receipt of notifications. The device will then send you notifications regarding the car battery, the start system and problems. These notifications are sent as soon as your smartphone is within the Bluetooth radius of the device.





ADD AND MANAGE DEVICES



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ADD AND MANAGE DEVICES

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- 5 The serial number including barcode is located on the underside and on the side of the battery guard.
- 6 Please select the battery type.
- 7 Confirm your details:



8 The app supports multiple devices and up to four devices can be displayed in the app at the same time.

Select the icon 🖾, to edit the details of a device

9 Select the Delete button, to remove the device from the overview.



INSTALLING THE BATTERY-GUARD

- Attach the red connector to the positive terminal and the black connector to the negative terminal and tighten the screws, see illustration ^(a).
- Clean the surface of the battery box before the next step.
- Attach the device to the battery box using the double-sided adhesive tape supplied, see illustration [®].



BLUETOOTH RADIUS



Under optimal conditions, the Bluetooth connection is maintained within a radius of up to 10 meters.

If there are obstacles between the Battery-Guard and your smartphone, the range may decrease. These can be garage doors, house walls or different rooms, for example.

The range can also be influenced differently by body parts or the hood.



 When the device is connected to the app, the Bluetooth icon appears in blue 9. If interrupted, it turns red 9. By default, the app automatically connects to the device when it is within Bluetooth range.

START SCREEN

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- Quickly switch to another device using the pull-down menu.
- 3 Add a new device or select one that has already been added. Up to four devices can be displayed at the same time.
- 4 The battery charge status is displayed as a percentage.
- 5 The color of the ring changes depending on the state of charge of the battery.
- G Battery status display:
 ≫ Yellow Battery OK.
 ≫ Blue Battery is charging.
 > Red Low charge status.

Displays the battery voltage in real time.





_____ |− +| START SCREEN

- 8 Displays the battery housing temperature in real time.
- 9 You can call up the start test user interface here. A start test is performed automatically every time the engine is started.
- Here you can access the charging test user interface and test the charging system manually.
- Battery voltage graph: Click on the graph to enlarge it. The graph shows the state of charge in %, the temperature or the battery voltage in volts. You can choose between the display of one day, 3 or 5 days and switch between the days at the top center.

- 12 This will take you back to the start screen.
- Here you will find an overview of your trips, see page 18.
- 14 Device list of all registered devices, see page 9.
- (15) You can make your individual settings here, see page 19.





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CRANKING TEST



1 Starter test:

When the engine starts, the device automatically tests the starting system and saves the test result. If the voltage is higher than 9.6 V when starting, this is considered normal. However, if the starting voltage is below 9.6 V, this indicates a defect. This may mean that the battery is too weak due to insufficient charge, ageing or other factors, the starter motor is faulty or there is another problem.

2 Cranking time

Cranking Voltage

- » Green indicates a normal value.
- Red indicates that the starting voltage is too low.

Graphic representation of the starting voltage





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Idle Speed Test

To do this, leave the

switch on all electrical

The test takes approx.

vehicle idling and

consumers.

6 seconds.





High Speed Test

To do this, switch off all electrical consumers, increase the engine speed to 2500-3000 rpm and hold it there for approx. 6 seconds. The test is then complete.



4

Diode Ripple Test

To do this, leave the vehicle idling and switch off all electrical devices. The test takes approx. 6 seconds.

Start Testing.

1







1 Help screen for interpreting the results:

» Charging voltage normal:

The charging system indicates that the alternator output is normal, no problem detected.

» Charging voltage too low:

Check whether the drive belt is slipping or whether the cable connection between the alternator and battery is normal or not. If the drive belt and cable connection are OK, follow the vehicle manufacturer's recommendations to rule out alternator failure.

» Charging voltage too high:

The output voltage of the alternator is too high. Please contact a specialist workshop to check the charging system. The usual voltage for vehicle regulators is 14.7 ± 0.5 V. A high charging voltage leads to overcharging of the battery and shortens its service life; it can also lead to malfunctions.





2 Time of the end of the load test.

Idle Speed Test:

» Green indicates a normal value.

Red indicates a too high or too low starting voltage.

4 High Speed Test:

» Blue indicates a normal value.

Red indicates too high or too low low starting voltage.

5 Diode Ripple Test:

» Orange indicates a normal value.

Red indicates too high or too low low starting voltage.

6 The test can be repeated here.





- Select the icon ²², to select the logbooks for each month or all journeys.
- Select a specific device to view the driving data.
- 3 Start time, operating time and misfire time of each trip.

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🔅 settings

1 Daily Power Notification

 is on.
 is off.
 Based on the default system setting, notifications are sent every 9 hours.
 The frequency of the notifications can be set.

2 Abnormal Cranking Notification

is on.

🔵 is off.

The system default is no more than one notification in 9 hours, the notification frequency can be set.

Bower Alarm

Two limit values can be set using the sliders. If the battery power falls below or rises above these values, you will receive an app notification about the charge status.

4 Export Data

Here, the history data of the selected month can be sent in Excel by e-mail or shared via WhatsApp, Skype, Facebook, etc.





SETTINGS

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5 Unit

Here you can set the unit to metric or imperial.

6 Firmware-Update

Here you can check the hardware version and also update the firmware as soon as a new version is available.



About the App

see page 21.





ABOUT THE APP

	14:08 🕣		ull 🗢 820
		About the App	
0-	Data privacy		>
2-	FAQ		>
8-	Feedback		>
4	App Version		V 1.2.8 🗲

1 Data privacy

Here you can find the privacy provisions of the app.

2 FAQ

This submenu lists the most frequently asked questions and provides the corresponding answers.

3 Feedback

Here you can give feedback on the app or the device or report problems. The feedback goes directly to technical support and is processed individually within a short time.

4 App Version

Display of the current app version number.

FURTHER NOTES

- The product should not be used beyond the specified voltage range (6-19 V), too high input voltage may damage the device.
- 2 The app requires smartphones with: Android 5.0 and above, iOS 10.0 or newer systems.
- When the smartphone comes into Bluetooth range, it will receive a notification.
- If the daily test alert function is not enabled, when the smartphone is in range, it also cannot receive the daily test result notification. You can enable this both in the app and in the phone's settings.
- If the alert function is not enabled, when the smartphone is near the device, it also cannot receive alert notification. You can enable the notification both in the app and in the phone's settings.
- The firmware update will delete all data in the device. Please open the app and wait for the sync to complete before updating the firmware.

- All recorded data will be saved on the phone, when you upgrade the app, this data will not be lost. But if the app is uninstalled, the data will be deleted.
- The device automatically monitors the vehicle battery, starting and charging system. The device can store data up to 72 days. Please connect the app at least once in 72 days to make sure the data is saved for a long time.
- If the app can not connect to the Battery Guard device, please make sure the Bluetooth of the smartphone is on, you are near the device and the device is added correctly.

DOWNLOADS





