

AirCheck BLE

User Guide

Please review this entire guide before using AirCheck BLE.

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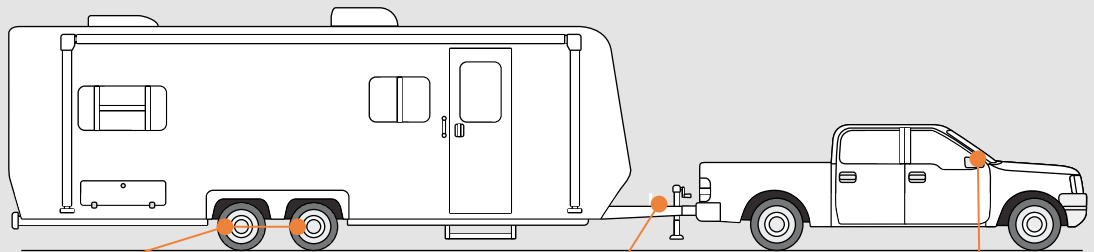
AirCheck BLE enhances your safety and comfort on the road by delivering real-time pressure & temperature readings through a user-friendly mobile app. Please review this entire guide before use.

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AirCheck BLE

Consists of three core elements:



TPMS sensors communicate pressure and temperature data using BLE protocol.



Bluetooth® range extender expands communication range between sensors and the mobile app. It is recommended to place the range extender at the front of the trailer or back of the towing vehicle.



Intuitive smartphone app monitors the system.



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth® SIG, Inc., and any use of such marks by Sensata Technologies, Inc. is under license. Other trademarks and trade names are those of their respective owners.

Box Contents

Your AirCheck BLE kit contains the following items:



TPMS Sensors

Included in every AirCheck BLE kit. Order individual sensors using Part Number 29501.

NOTE: Valves fit rims with 0.453" valve holes only. Use replacement service pack PN 20165-S for commercial rims with 0.625" valve holes.



Range Extender

Comes with screws and tape for mounting.



Charging Cable

Charges the range extender.



Commercial Tire Valve Kit

Replacement service pack PN 20165-S for commercial rims with 0.625" valve holes.



It is recommended that your AirCheck BLE TPMS sensors are installed in your tires by a trained tire installer. SchraderTPMS assumes installers possess knowledge of current, generally accepted industry installation standards and practices.

CAUTION: Incorrect installation may damage sensors and prevent correct operation of your system.

Setup Guide

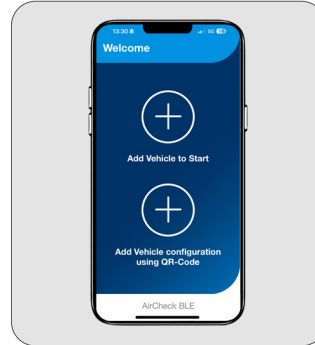


Step 1
Download app.



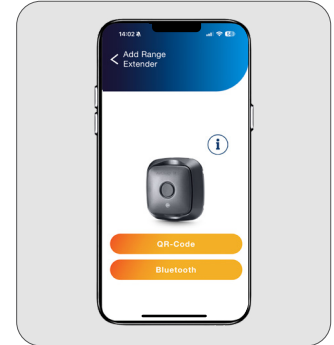
Step 2
Create an account by selecting "Account Type" to configure the app and choose either:

- "Individual" for personal use
- "Company" for tire installers



Step 3
Set up the vehicle information by either:

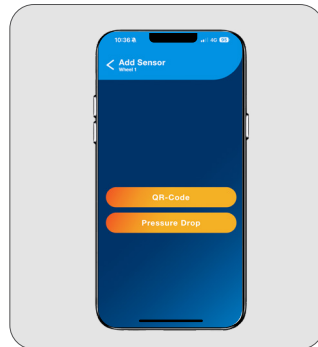
- Manually configuring the vehicle
- Using the QR code setup (if another user has already configured the vehicle and is sharing it with you, see page 14 for instructions)



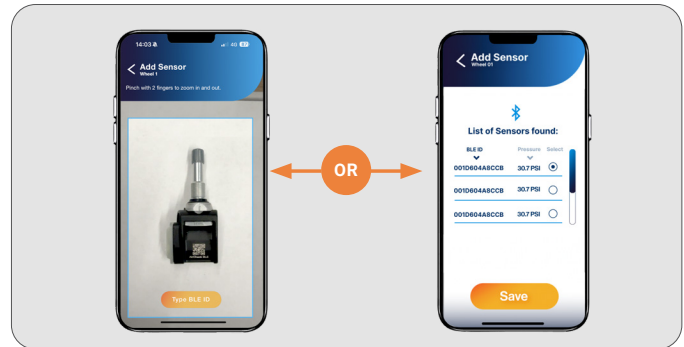
Step 4
Skip to Step 5 for passenger car installations. Add the range extender in the app, then install it on your vehicle (see pages 5 and 6 for instructions).



Step 5
Configure the vehicle by setting the number of axles and wheels (see page 7 for instructions).



Step 6
Select a method to add the sensors to the app (see Steps 7a and 7b).

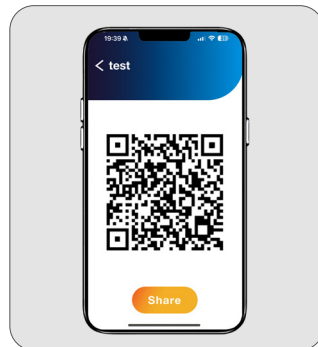


Step 7a: QR Code
Select this method for sensors not yet installed in wheels. Scan the QR code on each sensor and then proceed with installation (see page 12 for instructions).

7b: Pressure Drop
Select this method for sensors already installed in wheels. Assign the BLE TPMS sensor to the correct tire location on the vehicle (see page 8 for instructions).



Step 8
Install the sensors as per instructions (see sensor mounting instructions on page 12 for details).



Step 9
Share the configuration QR code with another user. User will need to download the app, create a profile and use the QR code setup feature to import the entire configuration.

Connect & Add Range Extender

About Range Extender

- To turn on the range extender, press and hold the button until the LED starts to flash.
 - Red flashes = Battery needs charging
 - Green flashes = Battery is sufficiently charged
- To turn off the range extender, press and hold the button until the LED starts to flash blue.

NOTE: The range extender stays on but switches to a low power state, using minimal energy, when the smart device is out of range. It's like a sleep mode that saves power while staying ready to reconnect.

Charging the Range Extender

Use the included USB-A to USB-C cable to charge it. When continuously connected to the smart device, the range extender can operate for up to 28 days on a full charge before needing to be recharged.

The range extender's LED will appear red while charging and green when fully charged.

Connecting Range Extender

Before using the range extender for the first time, ensure it is fully charged. Then turn on the range extender, select one of the two ways to add the range extender and follow the instructions.

A QR Code

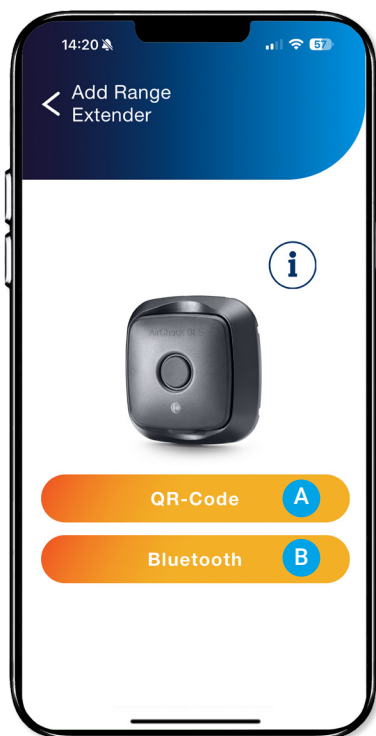
Scan the QR code on the range extender label. The range extender needs to be removed from the cradle to access the QR code.

B Bluetooth®

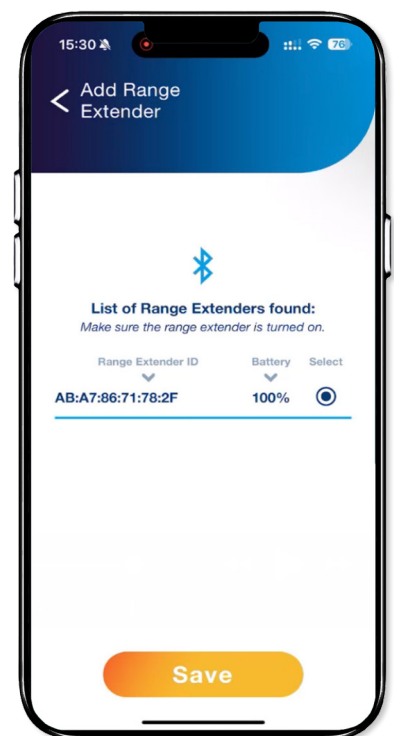
Make sure the range extender is turned on. Select it by checking the "Bluetooth®" box. The range extender ID will appear. If multiple IDs appear (other range extenders may be nearby), move closer to the range extender you wish to add. The list will refresh automatically to show the nearest range extender at the top of the list.

Once the range extender is connected to the app, proceed with the installation by following the recommended positions outlined on page 6.

The app will show a "+" icon when a sensor/range extender is yet to be added and a "✓" icon when a sensor/range extender has been added.



A



B

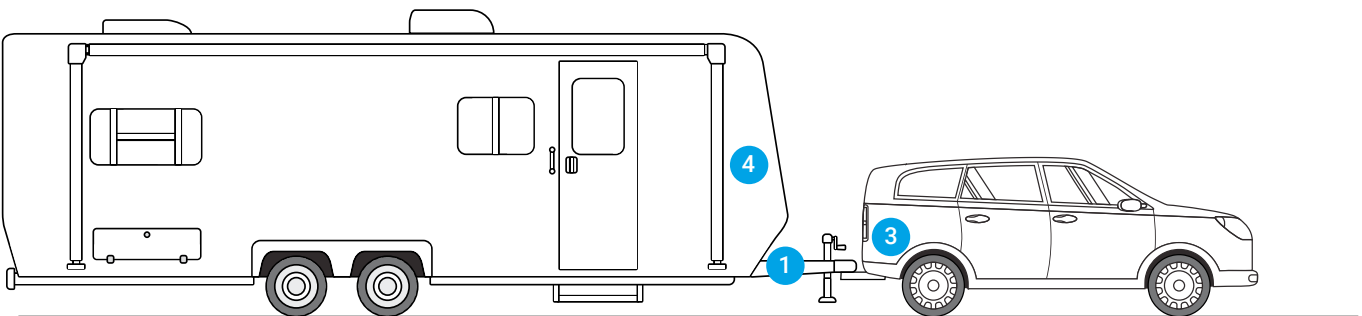
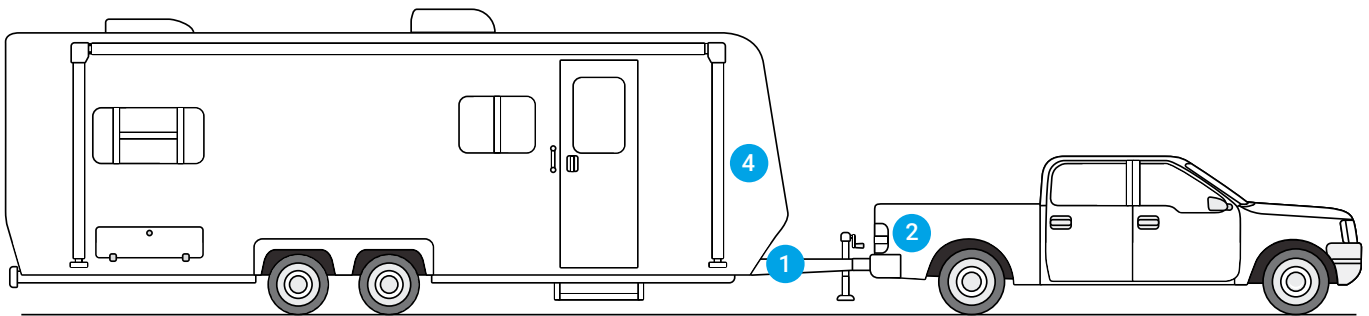
Range Extender Installation Positions

The range extender can be installed in one of the four recommended positions below.

Recommended positions include:

- 1 Tow bar
- 2 Pickup truck bed
- 3 At the rear of vehicle
- 4 Interior storage compartment in front of RV

Range extender should not be placed in metal locker.



Configure Vehicle

Configure Vehicle in App

Set number of axles and wheels using the icons



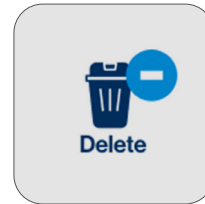
Add a single axle



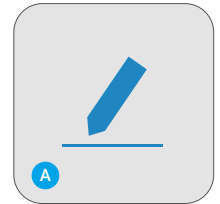
Add a dual axle



Add a spare wheel



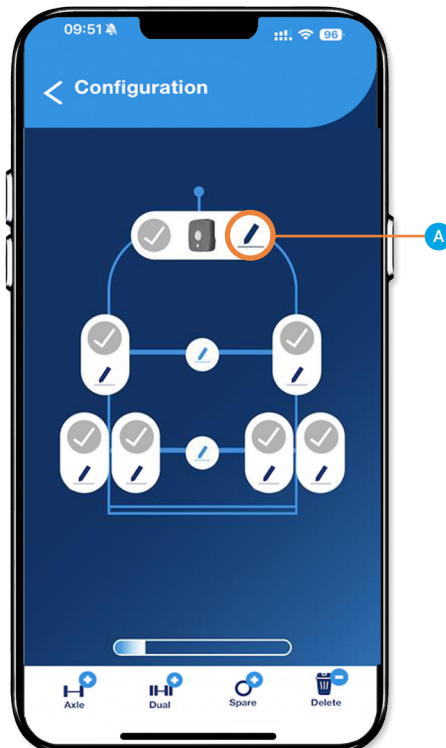
Delete axle(s) and/or spare wheel(s)



Modify the range extender or update the recommended axle pressure as needed

NOTE: Sensors/range extenders not yet added will be represented with a gray plus sign. Added sensors/range extenders will be represented with a gray check mark.

- A** Use the pen icon to make changes to the range extender and update the recommended pressure for all of the wheels on the axles. Although the app will alert for high temperatures, users cannot change the high-temperature threshold.



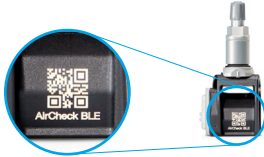
Add BLE TPMS Sensors

Add BLE TPMS Sensors

Click on the plus icon of each tire to add sensors using one of the two methods below:

1. QR Code

Scan the QR code on the sensor located above the AirCheck BLE logo before installing the sensor inside the wheel.



2. Pressure Drop

Assign the BLE tire sensor to the correct tire location on the vehicle (use only if sensors were installed before connecting to the app).

To trigger sensor transmission:

1. Reduce the pressure in the desired tire by at least 1.5 PSI (0.1 bar).
2. Select the sensor with decreasing pressure value and assign it to the correct layout in the app.
 - A Use the settings icon to change pressure and temperature settings.
 - B Use the share icon to share configuration with another user.

Set Pressure

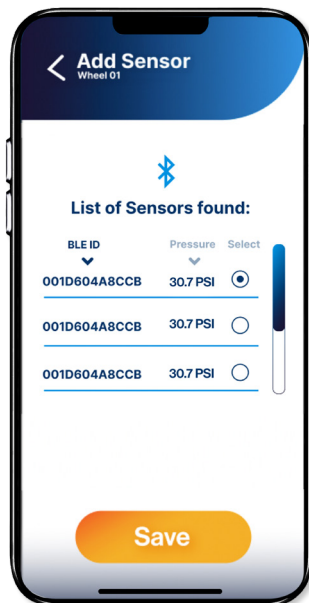
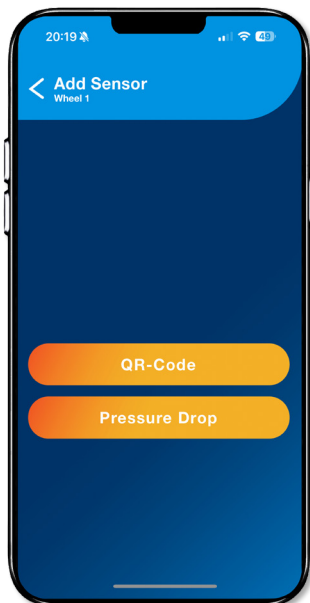
The app allows you to set the recommended pressure for each axle. Once you add all the tires for an axle, the app will automatically prompt you to set the recommended pressure for that axle. To change the recommended pressure later, tap the pen icon on the axle. This value sets your warning threshold; alerts trigger. A low-pressure alert is triggered when the measured tire pressure falls 25% or more below the recommended pressure.

A high-pressure alert is triggered when the measured tire pressure exceeds the recommended pressure by 35% or more.

If unsure about the recommended pressure, select the "Find Recommended Pressure" button.

Alerts & Meanings

- Sensor connected and transmitting pressure information.
- Sensor not transmitting. Drive, motion or pressure change is required to activate sensors.
- Wrong tire pressure and/or temperature detected.
- Sensor battery is low; please replace sensor.
- Range extender is connected and charged.
- Range extender not connected; please turn on the range extender or move the range extender closer to the smart device.
- Charge range extender using the cable provided.



Add More Vehicles

To add vehicle(s), click on the plus icon on the home screen and repeat the steps in the "Configure Vehicle" section.

The number of vehicles that can be added will vary based on account type:

- Personal = Up to five vehicles
- Company = Unlimited vehicles

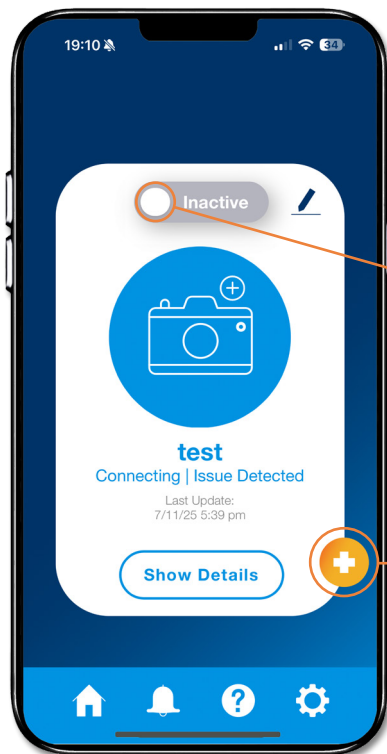
All connected vehicles will appear on the home screen. Once multiple vehicles are added, multiple tabs will appear on the home screen.

If a vehicle is not connected, the last date connected will appear on the tab.

Only one vehicle type can be set as "active" (i.e., currently in use) in the AirCheck app at any given time. For example, you cannot have two trailers or two cars active simultaneously; however, a car and a trailer can be active at the same time. Real-time pressure readings will only be available for the active vehicle setup.

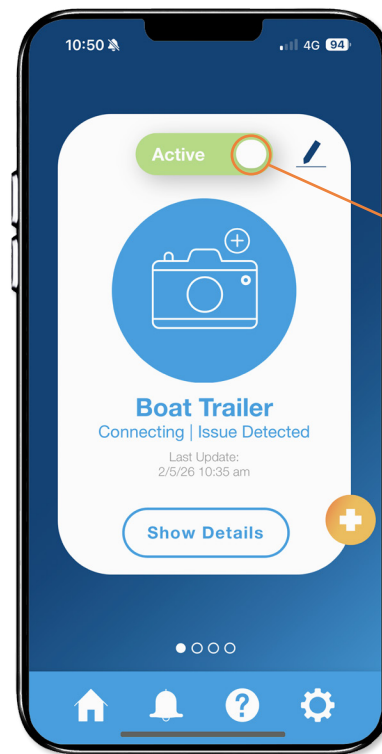
Additionally, a specific vehicle configuration (e.g., a car, trailer or both) can only be active on one device at a time. Live pressure updates will not be available for the same setup across multiple devices simultaneously.

Use the toggle switch to activate the vehicle.



Inactive:
Configuration is not in use.

Allows you to add more vehicles.



Active:
Configuration is in use by primary trailer.

Changing Configurations

Edit or Delete Profiles

Scroll to the vehicle tab on the home screen and select the edit icon.

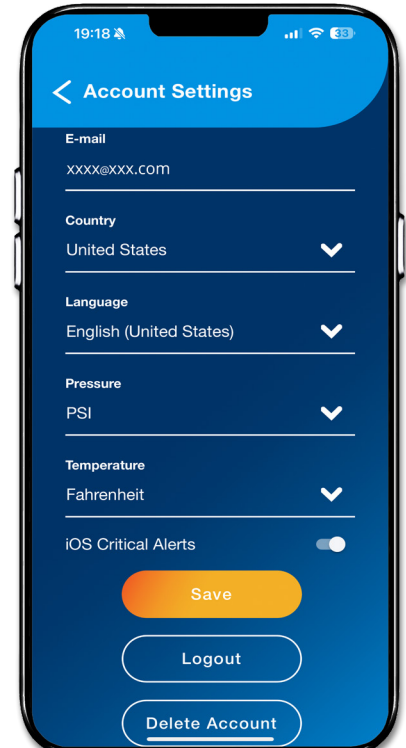
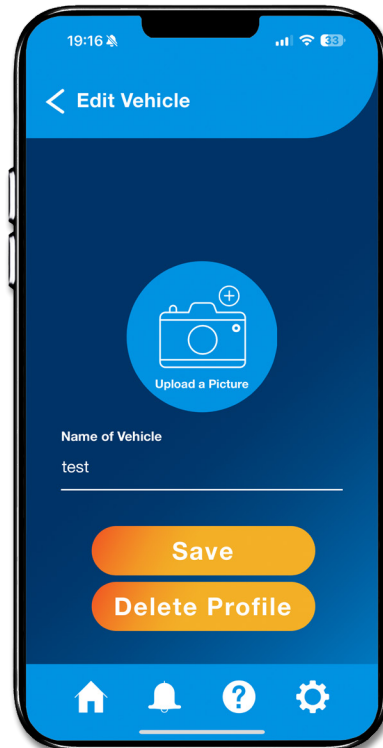
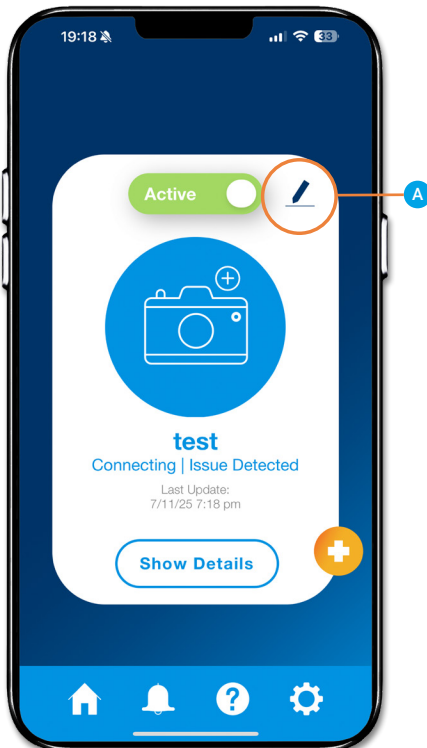


To delete a vehicle profile, simply click on the pen icon and remove it.

Account Settings

Changes can be made by selecting "Settings" from the home screen. Pressure and temperature units will be selected automatically for the country and region selected during the registration process. Although the app will alert for high-temperature warnings, users cannot adjust the high-temperature threshold.

- A Edit the vehicle name or picture, or delete the vehicle configuration.



Warning Notifications

Visual & Audible Alerts

A warning condition is triggered when tire pressure or temperature deviates outside of the acceptable range.

When this occurs, the AirCheck app will notify you in the following ways:

- If the app is open on screen: A full-page warning message will appear, accompanied by an audible alert.
- If the app is running in the background: A pop-up alert will be shown, also with an audible alert.

! Important: Critical alerts must be enabled on your device to ensure you receive these critical safety notifications.

How to Identify the Issue

- Tap “Show Details” (only when it’s safe to do so).
- Select “Trailer Details” to open the vehicle profile screen.

NOTE: If only one issue is detected, tapping “Show Details” will take you directly to the affected vehicle profile.

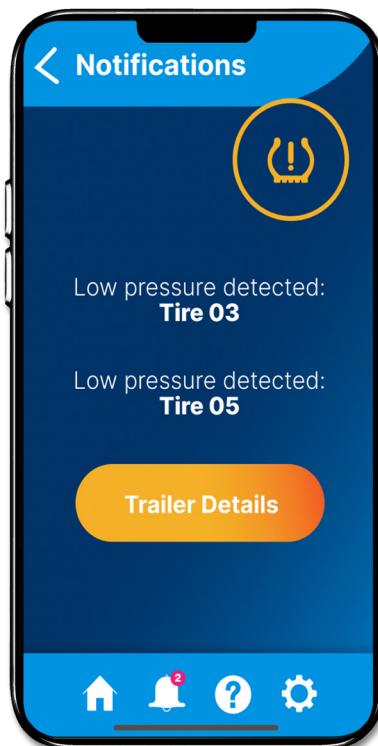
If multiple issues are present, a notification summary screen will appear first.

On the vehicle profile screen, any affected tires or range extenders will be highlighted. Tap or hover over each highlighted area to view detailed fault information.

Alert Frequency

Alerts will repeat every 10 minutes until the issue is resolved.

The app will continue running in the background and actively monitor for tire-related issues.



Sensor Mounting Instructions



Sensor mounting should only be performed by a professional installer.

<p>Mounting</p>	<p>1</p> <p>11 mm</p>	<p>2</p>																	
<p>3</p>	<p>4</p>	<p>5</p>																	
<p>6</p> <p>180°</p>	<p>7</p>																		
<p>OUT</p> <p>A</p> <p>B</p> <p>Inflate tire until both beads are in place</p>	<p>IN</p> <p>C</p> <p>D</p> <p>Inflate tire to recommended pressure</p>																		
<table border="1"> <thead> <tr> <th>Valve hole type</th> <th>Valve dimensions – mm</th> <th>Valve dimensions – in</th> <th>Solution</th> </tr> </thead> <tbody> <tr> <td>Small</td> <td>7.5</td> <td>0.295</td> <td>No solution</td> </tr> <tr> <td>Standard</td> <td>11.5</td> <td>0.453</td> <td>Use sensor as supplied</td> </tr> <tr> <td>Large</td> <td>15.7</td> <td>0.625</td> <td>Use service kit 20165-S</td> </tr> </tbody> </table>				Valve hole type	Valve dimensions – mm	Valve dimensions – in	Solution	Small	7.5	0.295	No solution	Standard	11.5	0.453	Use sensor as supplied	Large	15.7	0.625	Use service kit 20165-S
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Small	7.5	0.295	No solution																
Standard	11.5	0.453	Use sensor as supplied																
Large	15.7	0.625	Use service kit 20165-S																

Sensor Dismounting Instructions



Sensor dismounting should only be performed by a professional installer.

Dismounting



1



2

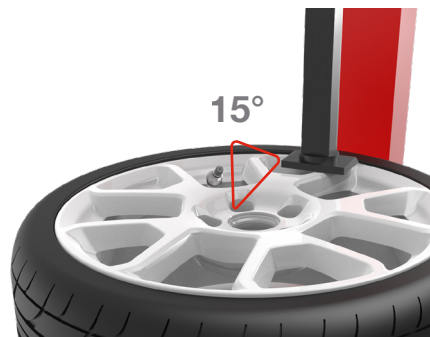


- Never fit a damaged sensor to a wheel rim
- Do not fit the tire to the rim unless confident that the valve has been fitted correctly
- Never reuse any service kit components once they have been removed from the valve stem
- Always ensure all service kit components are replaced with OE validated genuine parts, such as those from SchraderTPMS
- Never fit a sensor to unapproved wheel rims

3



4



5



SchraderTPMS Solutions

The management of SchraderTPMS reserves the right to modify this guide and/or the products described herein without notice.



QR Configuration & Sharing

Technicians: Share Profile With Driver

Configuration QR codes can be created and shared with drivers, enabling them to easily import their vehicle profile setup.

- A** Select "Share" in the vehicle profile to generate a QR code for that vehicle.
- B** Press "Share" beneath the QR code to display the same phone options as when "Share an Image" is selected.

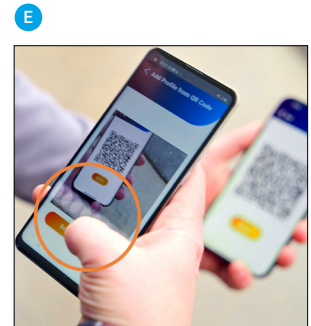
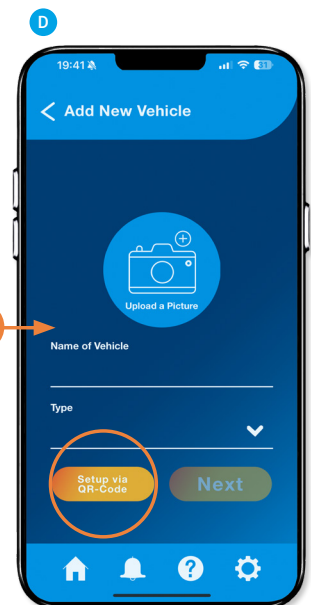
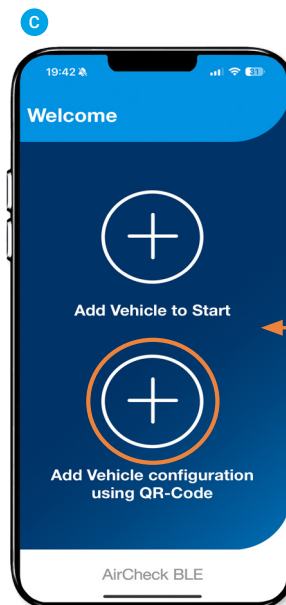
Drivers: Import Vehicle Profile

Drivers can now import their vehicle's configuration by scanning the QR code shared by their technician.

- C** Select "Add Vehicle configuration using QR-Code."
—OR—
- D** On the "Add New Vehicle" screen, select "Setup via QR-Code."
- E** Scan the shared code via the app to import the configuration.

Complete the entry and select "Save."

NOTE: Driver must have valid account to use QR code for setup.



Additional Information

Warranty

Sensata warrants that its sensors will be free from defects in materials and workmanship for a period of 24 months from the date of shipment from Sensata's facility or 24,000 miles (whichever occurs first). SchraderTPMS (a brand of Sensata Technologies) has not tested the compatibility of non-SchraderTPMS products for use in conjunction with SchraderTPMS parts. Defects, damages or losses caused by the use of non-SchraderTPMS products are not covered by SchraderTPMS' limited warranty.

Approvals Text

Sensor IC: 2546A-SCBLE
Sensor FCC ID: MRXSCBLE

Range Extender IC: 5123A-GM220P
Range Extender FCC ID: QOQ-GM220P

[Link to Sensata Privacy Notice](#)

[Link to End-User License Agreement](#)

Warning

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment can be installed and operated with a minimum separation distance of ≤ 5 mm between the equipment and users/bystanders.

The following statement is applicable to the Range Extender (model AIRCHK):

The device complies with Part 15 of the FCC Rules and with Licence exempt RSS standards of Industry Canada. 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.

Exposure to radio frequency energy. The radiated output power of the device meets the limits of FCC/ISED Canada radio frequency exposure limits. This device should be operated with a minimum separation distance of 20 cm (8 inches) between the equipment and a person's body.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

L'exposition à l'énergie radiofréquence. La puissance de sortie rayonné de cet appareil est conforme aux limites de la FCC/ ISDE Canada limites d'exposition aux fréquences radio. Cet appareil doit être utilisé avec une distance minimale de séparation de 20 cm entre l'appareil et le corps d'une personne.

The following statement is applicable to the Range Extender (model AIRCHK):

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.

Datos de homologación

Modelo del sensor – SCHBLE
IFT: ROSCSC24-35726

Modelo del extensor de señal – AIRCHK
IFT: CESCA125-31561

La operación de estos equipos está sujeta a las siguientes dos condiciones:

- (1) es posible que estos equipos o dispositivos no causen interferencia perjudicial y
- (2) estos equipos o dispositivos deben aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.



Contact Us

1-800-288-1804

Monday–Friday, 8:00am–8:00pm EST

Saturday, 10:00am–2:00pm EST

