BLU TECHNOLOGY PRODUCTS

BLU Premium Technology Products

Providing leading edge technology delivered with unsurpassed quality and a superlative user experience. Integrating high-speed wireless technologies with tastefully designed products.

BLU TPMS Tire Pressure Monitoring System

Tire condition is critical for the safety of riders and drivers. If there is a problem, receiving a warning before it's too late could be a life saver.

Our BLU TPMS Bluetooth Tire Pressure Monitoring System

Our BLU TPMS Tire Pressure Monitoring System will monitor both the pressure and temperature of vehicle tires with either external user installed sensors or professionally installed internal units.

BLU TPMS Internal Sensor System

Our high quality O.E.M. grade low energy Bluetooth (BTLE) sensors monitor these parameters, communicating this information to the free iOS or Android mobile app in near real-time, including push notifications when tire pressure or temperature deviate from their pre-defined settings; there is no dedicated display required.

BLU TPMS External Sensor System

These systems are available in 2 wheel (Motorcycle), 3 wheel (Trikes, CanAm, SlingShot, etc) and also 4 wheel & 6 wheel kits (For UTVs/Trailers/Haulers).

IMPORTANT SAFETY INFORMATION

Our BLU TPMS External Sensors are installed on the end of your air valve stem, replacing your standard valve cap. These sensors require 3/4 " clearance space when spinning on your wheel. You must check to ensure that these sensors will not come in contact with your brake calipers or any wheel components (especially if you have 90 degree, 45 degree or off-center/off-set air valve stems on your wheels). Sensors with improper clearance can be damaged and/or destroyed and will void product warranty. This can also be dangerous to riders and passengers as it could affect the condition of your air valve stem potentially resulting in loss of tire pressure.

BLU TPMS Mobile App

Of course the TPMS sensors wouldn't be complete without the means to actually monitor tire parameters.

Download our BLU TPMS App and keep track of pressure and temperature from the convenience of your mobile phone.

Once properly set up, the app offers a complement of custom settings for up to 99 vehicles. From motorcycles to big rigs, we've got you covered!

WARRANTY

Thank you for buying our BLU TPMS product!

From the date of purchase, we provide a **one-year warranty** for the product against manufacturers defects. During the warranty period, under normal operation and in the event of a faulty product, the company will repair or replace the product at our discretion.

Product warranty claims must meet the following conditions:
1. Defective products need to be provided to your local dealer to confirm purchase date and cause of defect.
2. Products must be operated correctly, as indicated in the user manual, abuse is not covered.
3. Product has not been altered or disassembled at time of return.
4. The main cause of product failure is due to manufacturing issues.

Disclaimer:
This product is only to be used as precautionary warning and provides to user as a convenient secondary safety device. Please follow the standard installation procedures or ask a qualified tire shop to install the product.
If the tire has been damaged or a traffic accident resulting from improper driving behavior occurs, the company will not be responsible for any civil or criminal liabilities.

BLU
TPMS

Multi Wheel Bluetooth

Tire Pressure Monitoring System

Model: Internal

1. Product Introduction

Tire condition is critical for the safety of riders and drivers, so getting a warning right from your vehicle that your tires have an issue could be a life saver. The BLU TPMS will monitor both the Pressure and Temperature of vehicle tires with internal, IP Addressable O.E.M. Grade, Low Energy Bluetooth Sensors (BLE). All of this information is then reported in the free App for IOS or Android devices, including push notifications that tire pressure is low or temp out of parameters, no dedicated display required.

2. Notice

Product Warning

2.1.1 Do not operate the App while driving. The company is exempt from all responsibilities that result from driver's carelessness and improper operation.

2.1.2 The system adopts the wireless transmission of signals. In some special environments, frequency interference, improper operation or faulty installation may result in weaker signals or inability to receive signals. If the construction of the windshield contains metallic material, it will affect the signal reception. When the alarm sounds and shows abnormal data, please drive the vehicle away from the current location (there may be signal interference in the surroundings) or drive the vehicle to a tire shop to be checked.

2.1.3 If the TPMS sensor is low on battery (if abnormal conditions exist continuously, the battery may make the TPMS sensors continuously emit signals to warn the driver, so the battery life will be shorter than expected), please go as soon as possible to a specified service station to confirm whether the TPMS sensor needs to be replaced.

2.1.4 Temporary resealing or re-inflation of product injected through the valve hole may adversely affect the operation of the sensor. The company is exempt from all responsibilities. Furthermore, do not place the TPMS sensor in contact with any chemicals. They might damage the sensor and prevent it from functioning properly.

2.1.5 Please close any other APPs or web pages which are not in use when using the BLE APP. Data receiving status of the APP may be affected by the system load of the smart phone.

BLU, BLE Sensor Specification	
Operating Voltage	3V
Operating Humidity	95 % MAX
Operating Current	<15 mA at DC 3V
Storage Temperature	-40℃ to 85 ℃
Operating Temperature	-20℃ to 85 ℃
Monitored Pressure Range	Passenger: 0 to 92 psi (0 to 640 kPa) Truck: 0 to 185 psi (0 to 1280 kPa)
Monitored Temperature Range	-20 ℃ to 85 ℃
Operating Frequency	2.4GHz
Transmission Power	4 dBm MAX
Battery Life	3 years (under normal operating condition)
Battery Capacity	130 mAh (CR1632)
Weight	9.5 g ± 0.5 g (including battery)

Optional Voice Dongle Specifications	
Operating Voltage	5V
Operating Humidity	95 % MAX
Operating Current	<900 mA at DC 5V
Storage Temperature	-40℃ to 85 ℃
Operating Temperature	-20℃ to 85 ℃
Sound Pressure (min.)	80dB@30cm
Operating Frequency	2.4GHz
Transmission Power	4 dBm MAX
Weight	10 ± 1 g

4. BLU TPMS Package

Part list:

BLU internal TPMS sensors

Valves

Philips Screws

User Manual

5. BLU TPMS Sensor Installation

5.1 TPMS components and accessories

1. Screw 2.TPMS sensor 3.Valve and rubber washer   4.Washer   5.Nut   6.Valve Cap

(Fig. 1)

Have a professional installer loosen one side of the tire from the rim.

(Fig. 2)

They can then use the tire equipment to press the tire down at the location of the valve stem.

(Fig. 3)

Assemble the sensor using the Philips screw as shown, tighten to 1.5 ft lbs torque.

(Fig. 4)

Insert the assembled sensor into the rim through the valve stem hole. Position as shown. NOTE: The metal washer should be in contact with the rim, then the plastic one, then the keeper nut.
Now tighten the keeper to 3 ft lbs torque.

(Fig. 5)
Mount the tire: grip the rim edge and the valve is opposite to the mounting arm, avoid hitting the sensor during arm operation.
After installation, please download the APP to your smart phone, and proceed with all settings.

NOTE 1: After installation we recommend balancing the tire. If not properly balanced the tires may vibrate excessively.

NOTE 2: The "sensor valve" and "screw" are not included in product warranty. When replacing the sensor, it is suggested to use a new sensor valve and screw.

6.1 Operating System Requirements

The BLU TPMS system supports both Android & iOS operating systems. (**Bluetooth 4.0 required**).

App Download	Operating System	Compatible Smartphone
APPLE App Store	iOS 7.1.2 or later	iPhone 4S, 5, 5S, 6, 6 Plus or later
Android Google Play Store	Standard Android 4.3 or later	Android Smart Phone

6.2 How to Download

Search in the Google Play Store or APPLE APP Store by keyword "BLE" or "TPMS" , in order to find the free APP.(Multi Wheel Bluetooth TPMS APP.

After you install the APP, please restart the device and make sure Bluetooth is enabled. Open the App after restart is completed. A statement from the operating system will pop up, displaying "Bluetooth Service Disabled" and/or "Location Services Disabled". Please choose "ok" to turn on the "Bluetooth" & "Location Services" function. In case "Location Services" is not turned on properly, please turn it on in "Settings" (only for iOS system).

iOS version

Turn On Bluetooth to Allow "SysgrationTPMS" to Connect to Accessories

Settings   OK

Allow "SysgrationTPMS" to access your location even when you are not using the app?
For beacon ranging

Don't Allow   Allow

Android version

Bluetooth not enabled

Please enable bluetooth in settings and restart this application.

OK
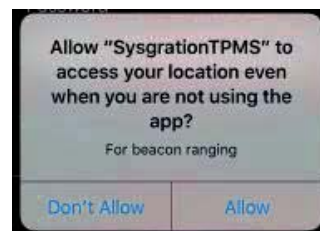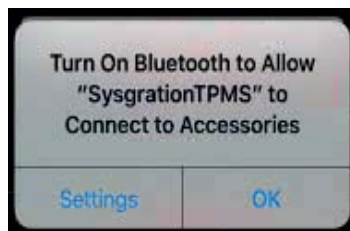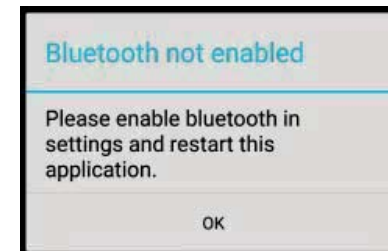
7.1 Intro screen

Please make sure the "Bluetooth" & "Location Service" Settings are enabled when you start the App.

iOS version
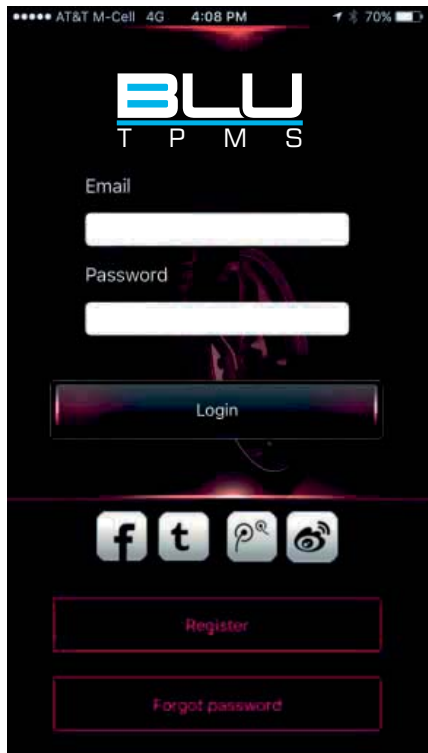
Android version
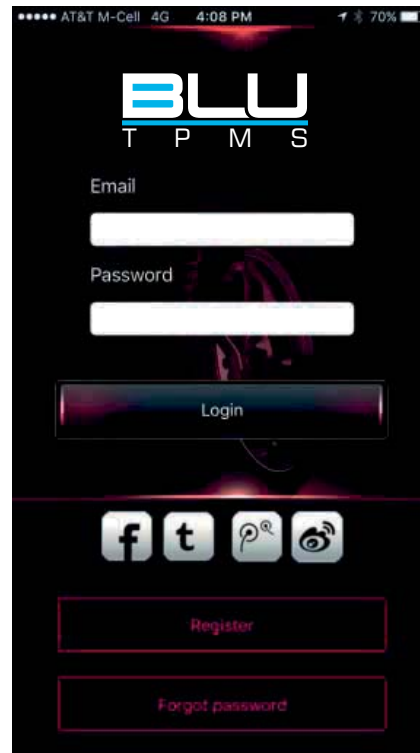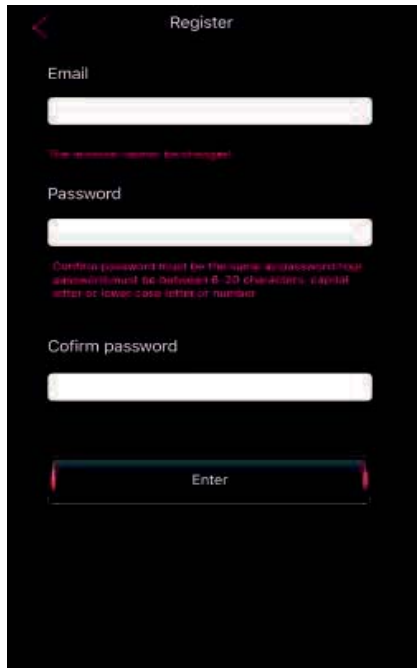
Login:
Login Page (Pic 4a & 4b).
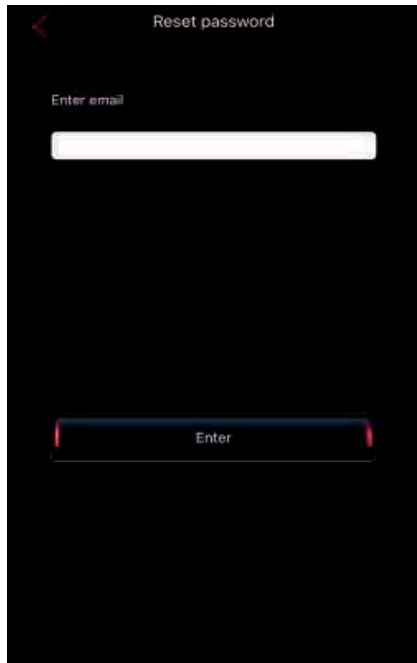
Enter email and password if already set up. If not, click "register" to begin process.

Pic 4a

Pic 4b

iOS version	**Android version**	

Pic 5a

Pic 5b

To Register:

Be sure the device is connected to the internet.

Enter desired email account.

Enter password. Password must be between 6 and 20 characters, capital, lower case and numbers.

Once submitted, you will receive an email to your account with an activation link. Click the link in the email to activate the account.

Pic 6a

Pic 6b

Forgot / Reset password:

To reset your password, please enter your registered email address. (Pic 6)

An email will be sent to that email address.

Enter your password within 1 hour.

Note: If Voice Dongle and TPMS Sensor have been paired, and changes are made in the "System Settings" or "Exchange" tabs please change the settings in "Dongle" to match.
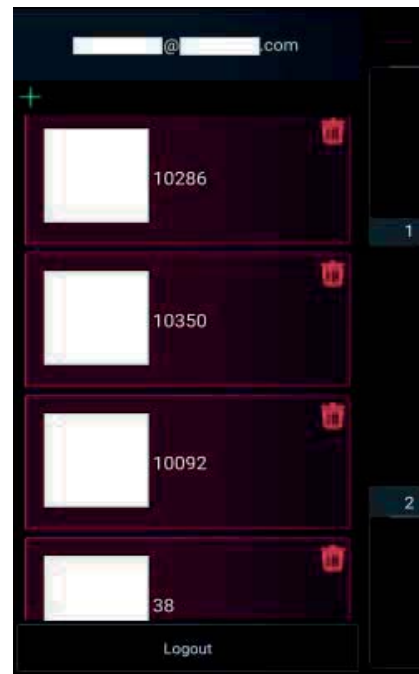
iOS version	Android version	
Pic 7a	**Pic 7b**	**Main Menu:** **To add vehicle:** Sign in and open left menu (Pic 7), click on the upper left corner "+" button to add a vehicle, select the vehicle type .(2/3/4/6/36 wheel) (Pic 8)

Car17

Car18

Car19

Car20

Vehicle21

車輛22

2

Logout

Pic 7a

10286

10350

10092

38

Logout

Pic 7b

New vehicles

More than 6 wheels

Pic 8a

New vehicles

More than 6 wheels
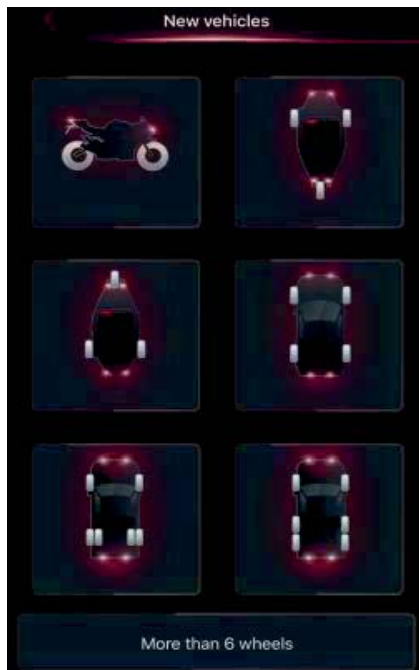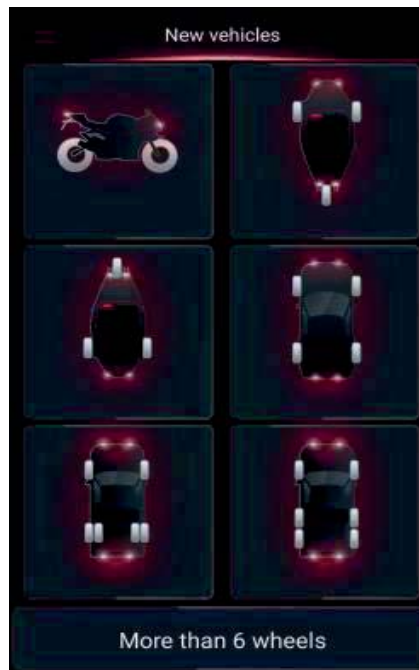
Pic 8b

iOS version
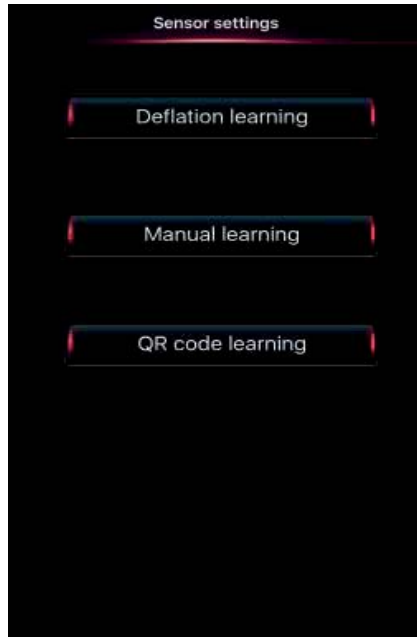
Pic 9a

Android version
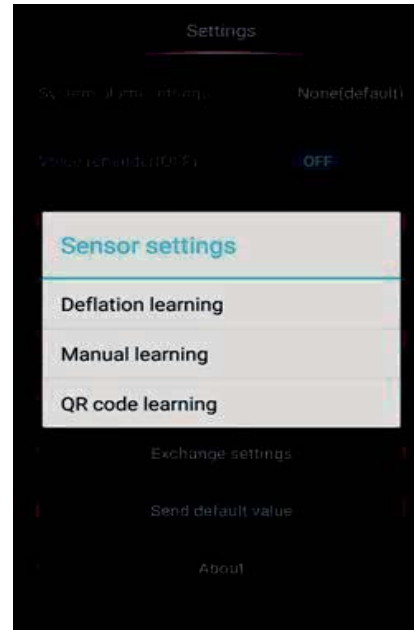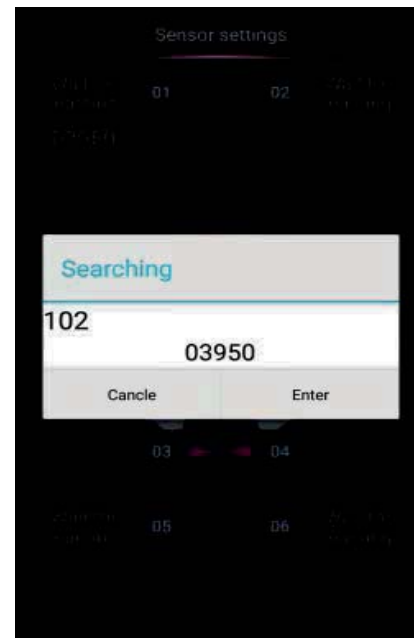
Pic 9b

Sensor Settings:
There are 3 kinds of calibration between the device and the sensors, Deflation, Manual, and QR code. The following describes each method, you must use one of them to set up communication between the device and the sensors.

Deflation set up (use when serial number is lost):

1. Select Deflation Learning.(Pic 9)

2. Choose tire and deflate the tire pressure. The App will look for the deflation signal, showing new ID number in the dialogue display. You can press "OK' to finish this step or press "Cancel". It takes 120 seconds to perform this step. (Please ask a qualified tire shop to install the product)(Pic 10)

Pic 10a

Pic 10b
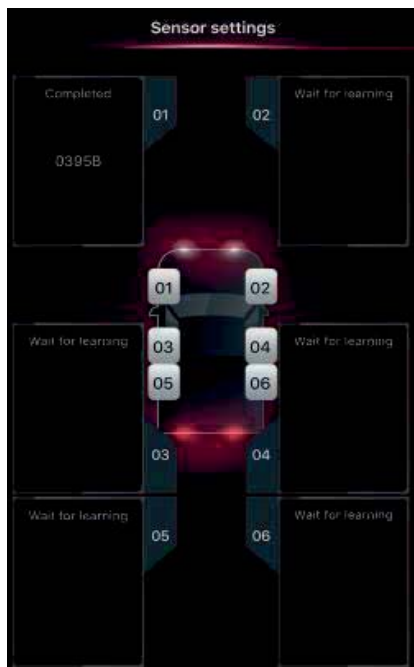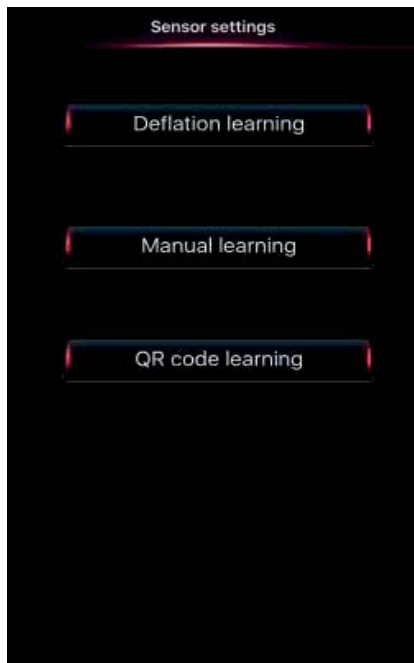
iOS version	**Android version**

Pic 11a
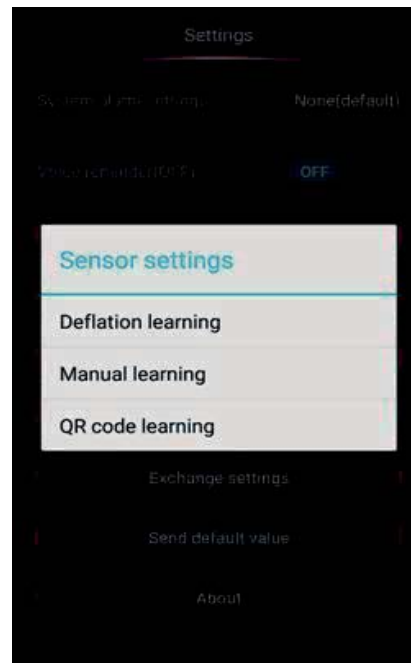
Pic 11b

3. When completed, a new number will show in the data field. (Pic 11) Using the same process, set up the ID learning for the rest of the wheels.

4. Press and hold on the data field to clear the existing ID.

Pic 12a

Pic 12b

Manual set up:
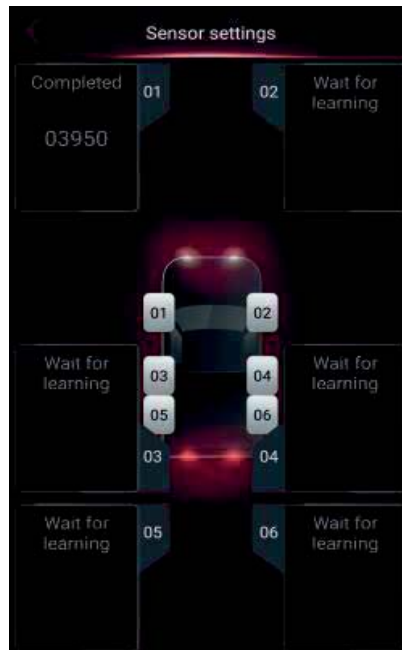1. Select Manual Learning. (Pic 12)

Sensor settings	Sensor settings
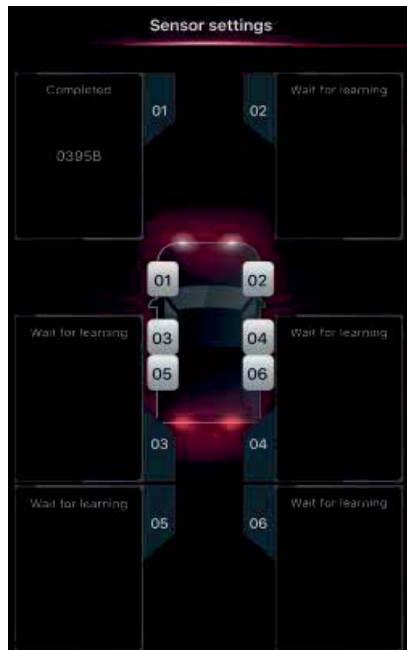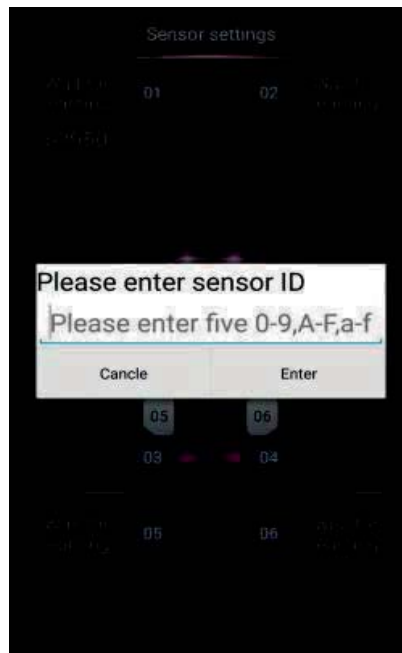
Pic 13a

Pic 13b

Pic 14a

Pic 14b

2. Choose tire "1" and key in the five character sensor ID (Please refer to last page: ID sticker), which might include "0-9", "A-F", or "a-f", when a blank space pops up. (Pic 13)

NOTE: The ID and location on vehicle are laser etched on the wing of the sensor as well.

3. Manual learning is now complete. The ID should show in the data field for the tire previously chosen. Repeat process for the balance of tires.

4. Press and hold on the data field to clear the existing ID's.

iOS version

Sensor settings

Deflation learning

Manual learning

QR code learning

Pic 15a

Android version

Settings

System alerts settings   None(default)

Voice schedule (OFF)   OFF

Sensor settings

Deflation learning

Manual learning

QR code learning

Exchange settings

Send default value

About
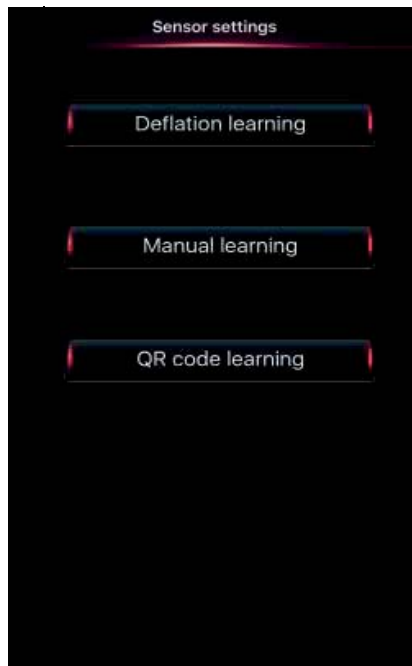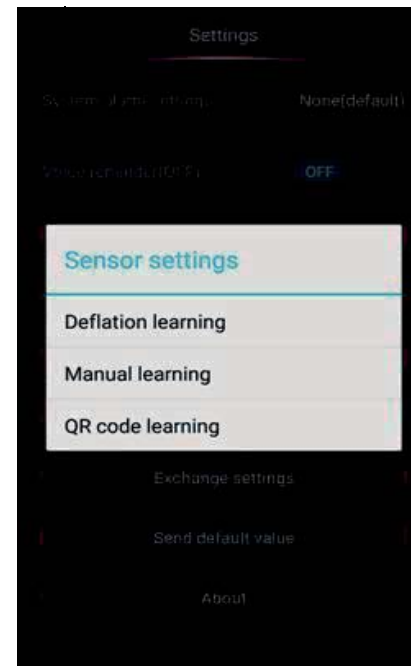
Pic 15b

QR Code set up:

Select QR Code Settings. (Pic 15)

Cancel

Pic 16a

point the camera at the QR code

Pic 16b

Choose tire 1 (LF)
 The APP will scan QR code, showing new ID number on the data field. (Pic 16a/b) repeat for balance of sensors.

NOTE: Make sure camera is properly focused on the top of the sensor.
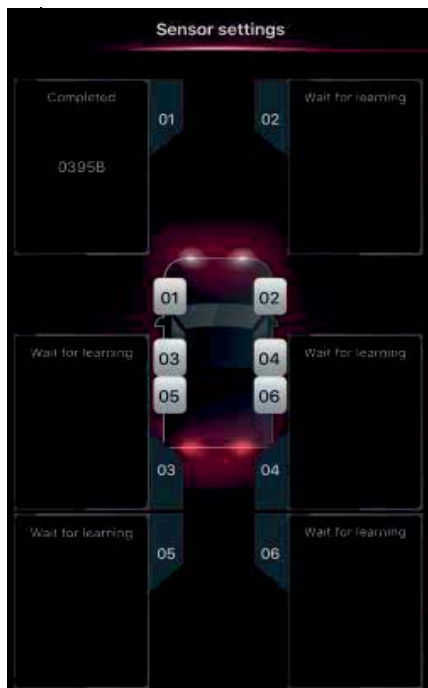
iOS version	**Android version**

Pic 17a

Pic 17b

3. The code will now show in the data field. Repeat the process for the remaining wheels.

4. Press and hold the data field to clear the ID's if necessary.

8. Alarms and Warnings

iOS version
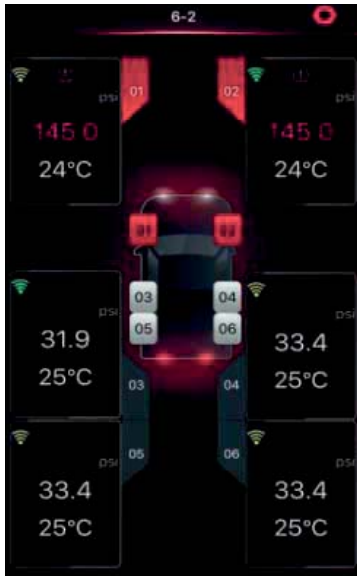
Pic 18a

Android version
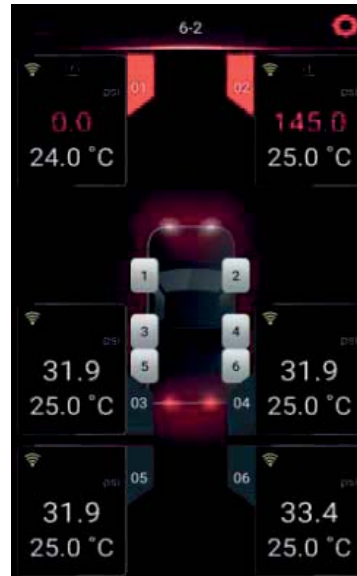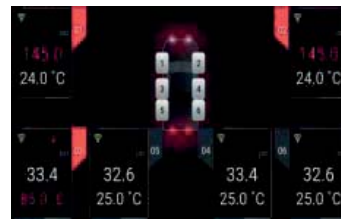
Pic 18b

System Warning

Pressure, temperature and voice warning. (Pic 18) When abnormal tire system status occurs, the value of the corresponding tire turns red, Shows a warning symbol and an alarm sounds. The warning symbols on each tire display are shown below.
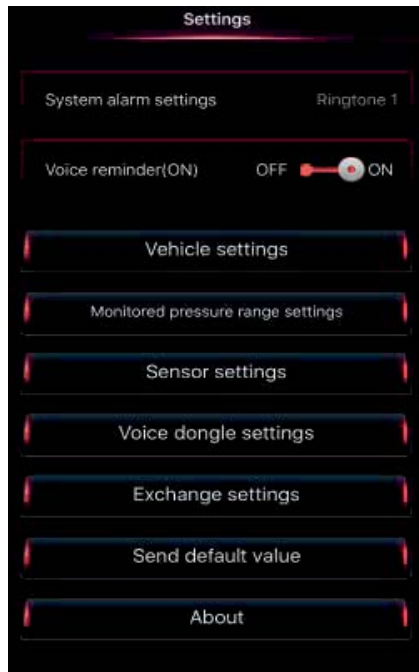
Press mute and turn off voice reminder to shut off audible alarm.

Pic 19a

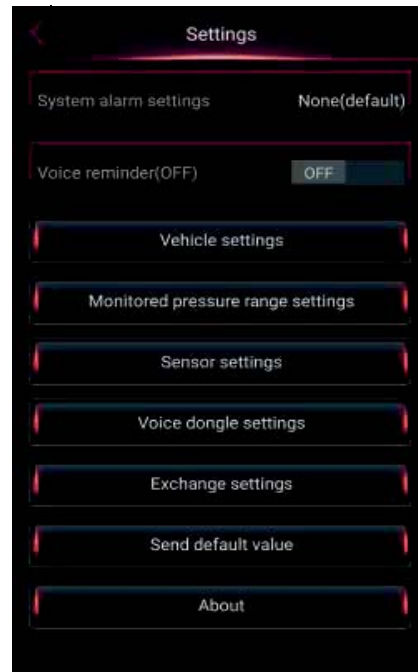Pic 19b

This screen supports landscape mode. (Pic19)

Warnings

No signal available for the device (shows in red)

Rapid deflation of tire pressure

High or low pressure warning (based on your settings)

High tire temperature (based on your settings)

Low battery power warning for TPMS sensor

iOS version

Settings

System alarm settings   Ringtone 1

Voice reminder(ON)   OFF ⬤ ON

Vehicle settings

Monitored pressure range settings

Sensor settings

Voice dongle settings

Exchange settings

Send default value

About

Pic 20a

Android version

Settings

System alarm settings   None(default)

Voice reminder(OFF)   OFF

Vehicle settings

Monitored pressure range settings

Sensor settings

Voice dongle settings

Exchange settings

Send default value

About

Pic 20b

System Settings: (Pic 20)

Warning Audio Settings: Audio and mute .

Voice reminder: Voice OFF/ON

Vehicle settings: Vehicle edit.(9.1)

Monitored pressure range settings: Select kPa、psi、Bar、Kg/cm2 pressure units, ℃, ℉, temperature unit and upper and lower limits. (9.2)

Sensor settings: Enter the sensor settings when using for the first time.(7.2)

Voice dongle settings: Dongle settings.(9.3)

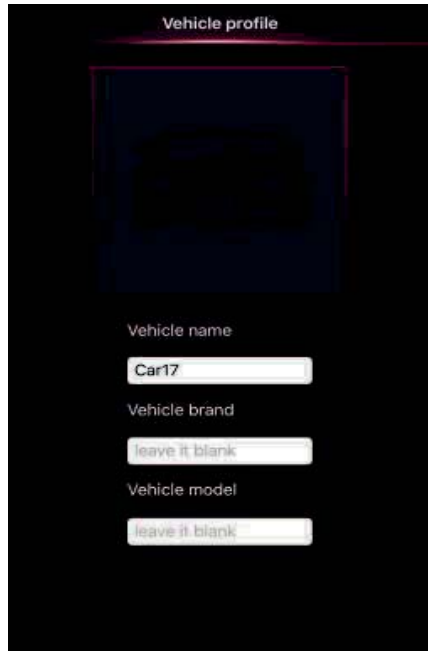**Exchange settings:** Tire exchange settings. (9.4)

Send default value: Value history record keeping.

About: Disclaimer & Company Information.(9.5)

If adjustments are made in"System Settings" and "Exchange Settings", please change the settings in "Dongle".
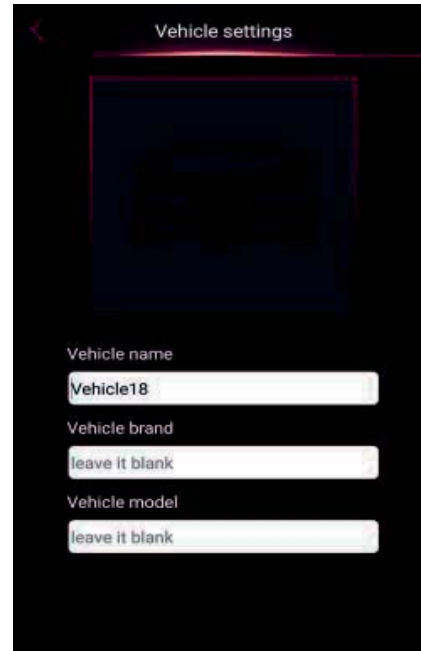
9.1 Vehicle Settings

iOS version

Pic 21a

Android version

Pic 21b

System Settings:

1. Select Vehicle Settings, enter vehicle name、brand、model. (Pic 21).
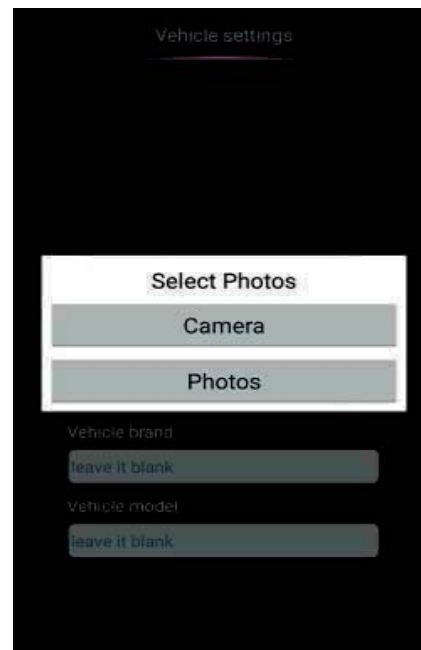
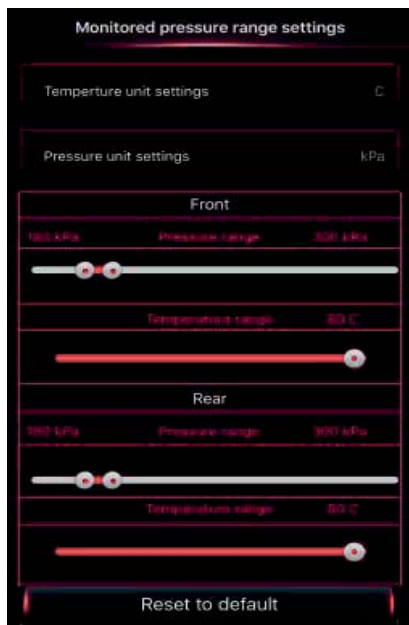Pic 22a

Pic 22b

2. Select Camera or Photos (Pic 22) then press the "Back "button to save the settings.

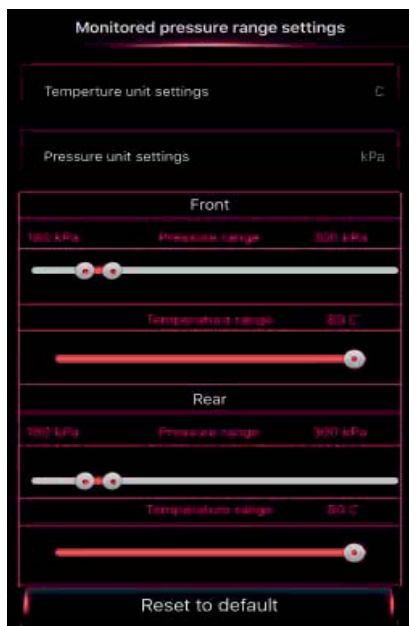# 9.2 Monitored Pressure Range Settings

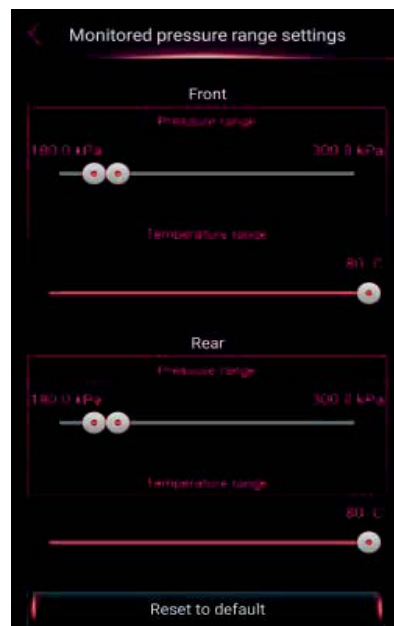| iOS version	Android version
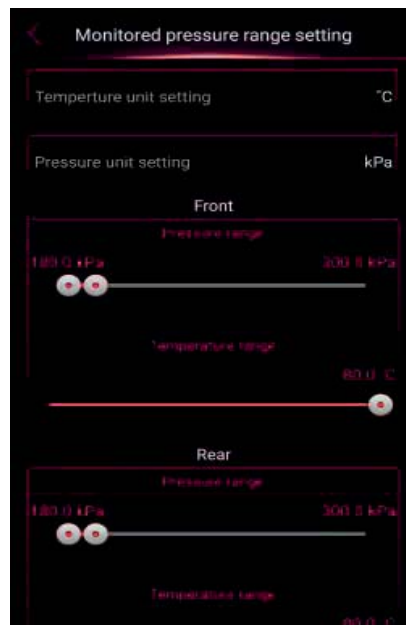
Pic 23a

Pic 23b

Monitored Pressure Range Setting:

Select Monitored Pressure Range Settings (Pic 23) ,

1. Change settings on "front wheel" and "rear wheel" then press the "Back" button to save the settings. You can press "Reset to default" (Pic 24) to reset all settings.

Pic 24b

Pic 24b

NOTE: For the standard tire pressure value, please refer to the placard located at the side of the driver's seat.

Default Value:

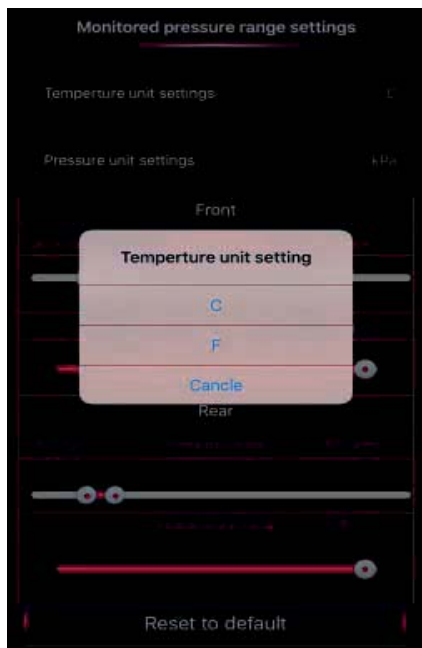Maximum tire pressure:

psi= 43; kPa= 300; Bar= 3.0

Minimum Tire pressure:

psi= 26; kPa i=180; Bar= 1.8
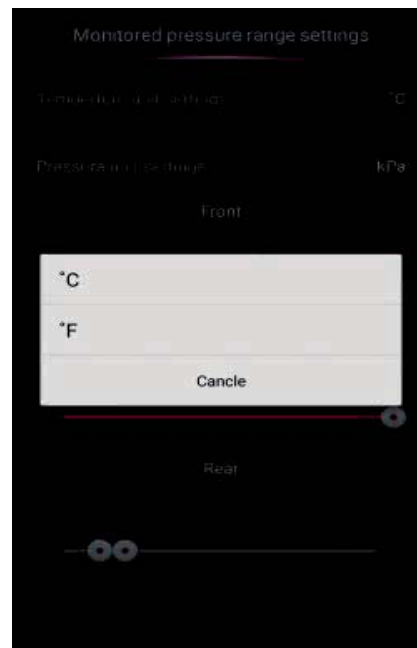
Maximum Temperature:

$^{\circ}$C= 80; $^{\circ}$F= 176

iOS version	**Android version**

Pic 25a

Pic 25b

2. Temperature Unit: ℃, ℉; Select temperature units (Pic 25) then press the "Back "button to save the settings.

3. Pressure Unit: kPa, psi, Bar, Kg / cm2, select pressure units, (Pic 26) then press the "Back "button to save the settings.
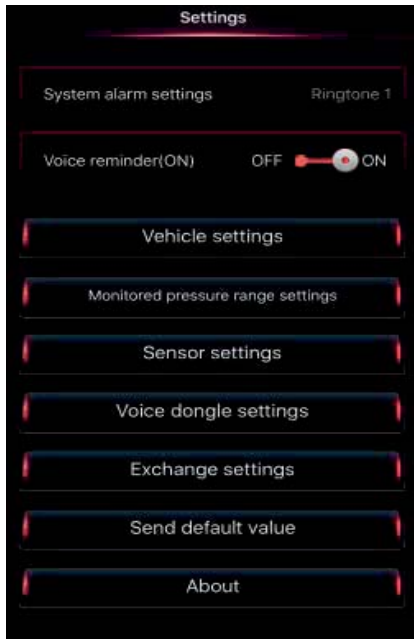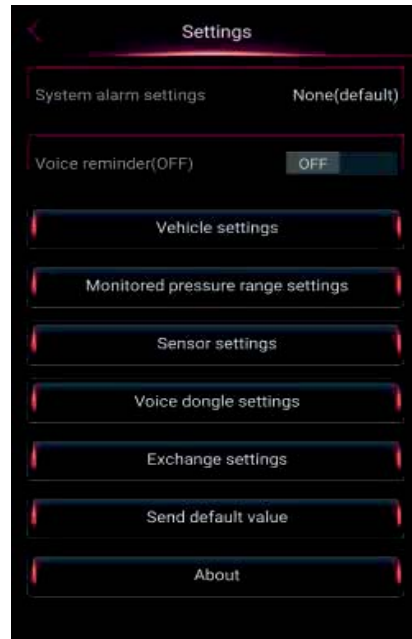

Pic 26b

Pic 26b

iOS version

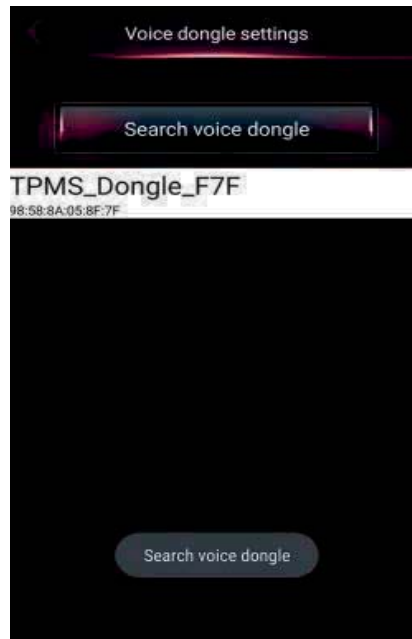**Android version**

Pic 27a

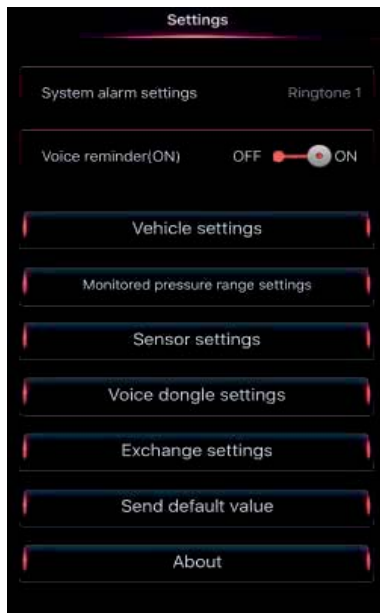Pic 27b

Voice Dongle Settings:

NOTE: Recommended for 5V/2A car USB power adapter.

1. Press the red voice dongle button for 1.5 seconds. When you hear "beep," unit is in the Bluetooth pairing mode (LED flashes Red and Blue light).

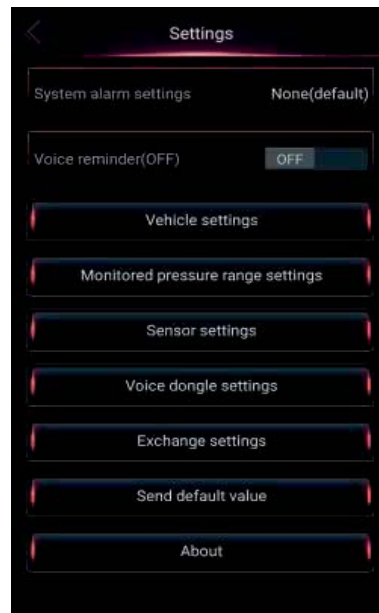2. Enter "Voice dongle settings" function. (Pic 27)

Pic 28a

Pic 28b

Click "TPMS_Dongle_sn" (random serial number) (Pic 28).

iOS version	**Android version**

Pic 29a

Pic 29b

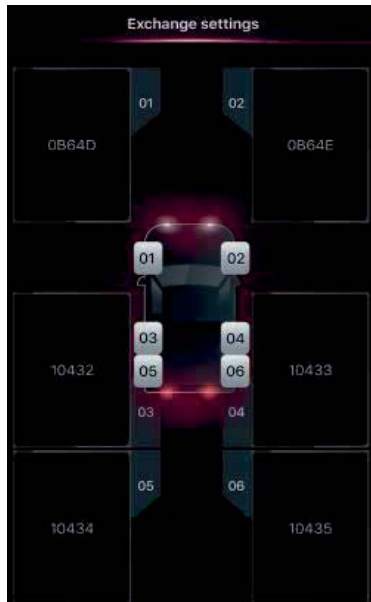3. The App will automatically download the settings when you hear "Setup completed". (Pic 9)

When writing data, do not remove the voice dongle.

Mute/ Un-Mute: Press the red button to mute. Press the red button again or wait 10 minutes for the mute function to cancel automatically.
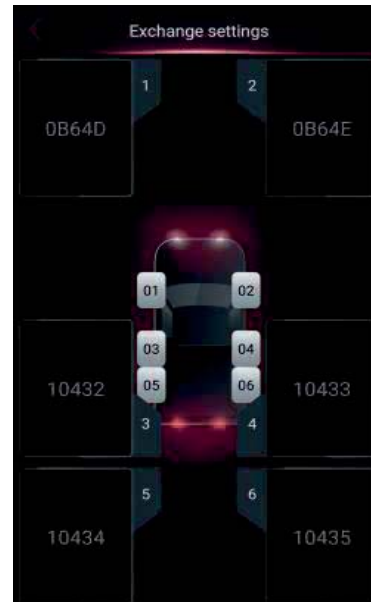
Double click: Tire Status Report.

9.4 Exchange Settings

iOS version

Android version

Pic 30a

Pic 30b

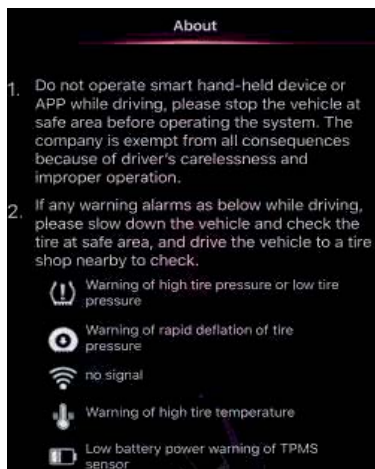Drag the dialogue display of the tire to the desired location for all desired exchanged tires, then press the "Back" button to save the settings. It will display the new tire positions in sequence.

9.5 About

iOS version

Android version

Pic 31a

Pic 31b

About: (Pic 31)
"Product Information" is displayed. It describes the definition of "Warning Symbol" and shows the link to the Company Website & Facebook.
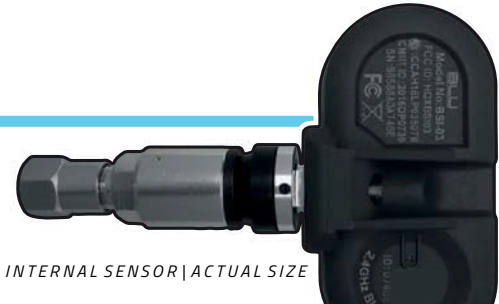
10. Troubleshooting

1. After inserting the sensor ID number into the App, the dialogue display remains without a value.
   A: TPMS sensor only transmits data when the sensor is moving over 12 mph; is started after parked for over ten minutes; or the tire pressure difference at the moment is 30 kPa. When stationary, data will not be transmitted in order to save power. You can check if the TPMS sensor is working normally through tire pressure increase or deflation.
2. Smart phone has completed the installation of the App, the sensor ID settings are done, and the car is being driven, but no data is shown.
   A: Please restart the device and be sure Bluetooth is turned on.
3. There is no alarm sound or voice warning.
   A: Be sure the phone is not in silent mode or that the volume has not been turned down all the way.
4. The alarm sounds for tire abnormality on screen but no voice warning is heard.
   A: Some Android smart phones do not support voice services. Please contact the smart phone manufacturer.

BLU TPMS

TIRE PRESSURE MONITORING SYSTEM

- **INTERNAL AND EXTERNAL OEM GRADE**
- **MONITOR PRESSURE AND TEMPERATURE**
- **BLUETOOTH LOW ENERGY TECHNOLOGY**
- **ANALYZE TIRE STATUS VIA MOBILE APP**

INTERNAL SENSOR | ACTUAL SIZE

Monitoring both the pressure and temperature of vehicle tires, the BLU TPMS sensors communicate this critical data in near real-time to the companion app.

Available for both iOS and Android mobile devices, the free app will send notification alerts when tires stray too far from user defined parameters.

SMART | LIGHTWEIGHT | ESSENTIAL

Tire condition is **critical** for the safety of riders and drivers. If there is a problem, receiving a warning before it's too late can be a life saver.

The BLU TPMS External and Internal Tire Pressure Monitoring System monitors both the **pressure** and **temperature** of vehicle tires, providing drivers with an increased awareness of tire status.
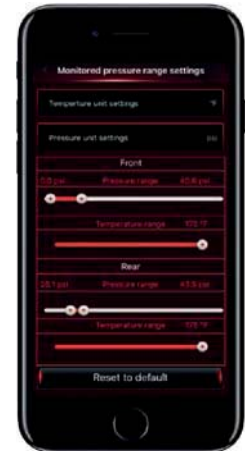
Inflate your confidence with BLU TPMS!

VIEW TIRE STATUS WITH MOBILE APP

- Multiple vehicle types available at setup
- Store up to 99 vehicles in one app account
- Tire temperature and pressure values are updated continuously
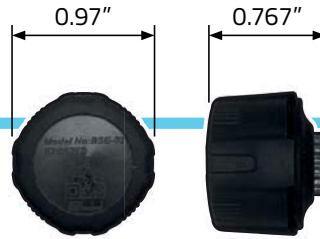- Personalization of your vehicle settings

Download on the App Store

GET IT ON Google Play

EXTERNAL | INTERNAL | EXPANDABLE

BLU TPMS

TIRE PRESSURE MONITORING SYSTEM

0.97"   0.767"

EXTERNAL SENSOR | ACTUAL SIZE

TIRE SAFETY IS A MUST

FOR YOUR

MOTORCYCLE | TRIKE
CAR | TRAILER | UTV
RV | CLASS 7 TRUCK

FEATURES | SPECIFICATIONS

- **INTEGRATED 32-BIT ARM CORTEX M0 MCU**
- **PRESSURE RANGE: 0-100 PSI OR 0-150 PSI**
- **PRESSURE ACCURACY: ± 1 PSI NORMALIZED**
- **TEMPERATURE READING ACCURACY: ± 5° F**
- **LIGHTWEIGHT AND LONG BATTERY LIFE**
- **OPTIONAL USB AUDIO ALERT MODULE**
- **OPTIONAL BLUETOOTH SIGNAL BOOSTER**
- **CHOOSE FROM 2, 3, 4, AND 6 PIECE KITS**

External Sensor 4 Piece Kit

DURABLE RETAIL PACKAGING

Internal Sensor 4 Piece Kit

OPTIONAL ACCESSORIES

USB Audio Alert Module

Receive audio-only announcements, no phone needed.
Plugs into any available powered USB outlet.

If the length of your vehicle impedes sensor reception,
use our Signal Repeater to boost signal strength.

Bluetooth Signal Repeater

Discover a comprehensive collection of motorcycle tpms sensors on our website.