BLU
T P M S

Multi Wheel Bluetooth

Tire Pressure Monitoring System

User Manual

Model: External

Table of Contents

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 external (D.I.Y.) 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:

BLE TPMS Sensor

CR 1632 Battery

Anti-theft lock

Lock-Nut

User Manual
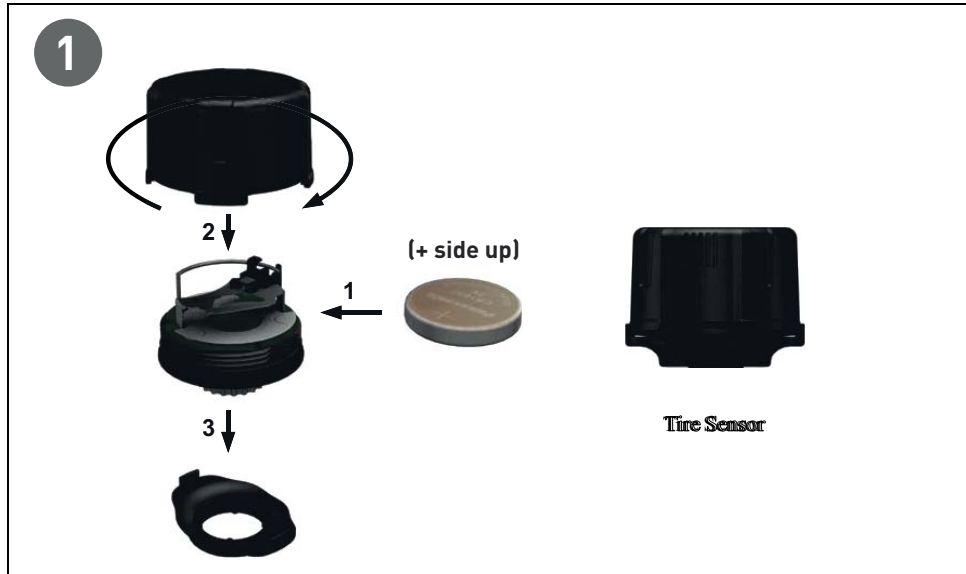
Wrench

Voice Dongle (Optional)

5. BLU TPMS Sensor Installation
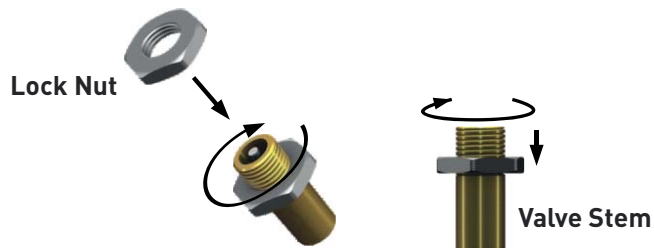
5.1 TPMS components and accessories

1.Battery(CR1632) 2.Tire Sensor 3.Anti-theft part 4.Lock-Nut 5. Wrench

5.2 Installation Steps

NOTE: We recommend metal valve stems for durability.

2 Lock Nut — Valve Stem

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After installation, please download the App to your smart phone, and proceed with all settings. (Please refer to section 7 "Initial Setting")

English

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, 6S, 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. [BLU TPMS]

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
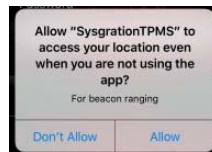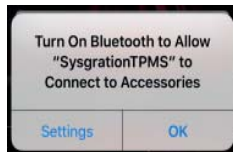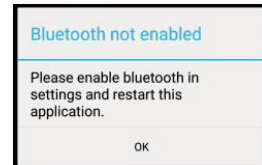
7. Settings & Add Device

7.1 Intro screen
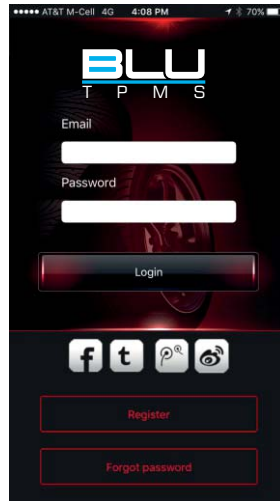
Please make sure the "Bluetooth" & "Location Service" Settings are enabled when you start the App.
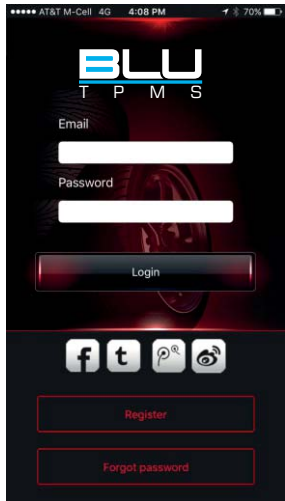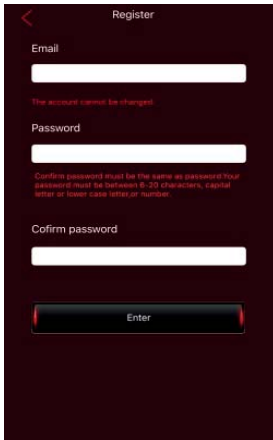
iOS version   **Android version**

Pic 4a

Pic 4b

Login:
Login Page (Pic 4a & 4b).

Enter email and password if already set up. If not, click "register" to begin process.

8

iOS version	**Android version**

Pic 5a

Pic 5b

To Register:

Be sure the device is connected to the internet.

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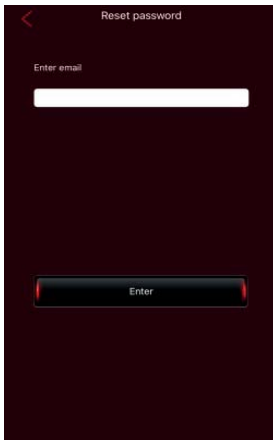
Enter password. Password must be between 6 and 20 characters, capital, lower case and numbers.

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
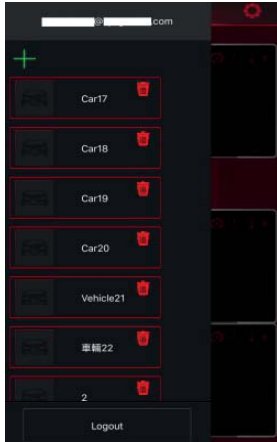
Forgot / Reset password:

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

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
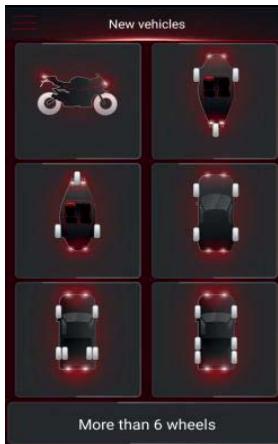

Pic 7a

Android version
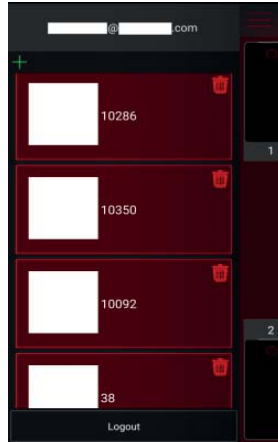
Pic 7b

Main Menu:

To add vehicle:

Sign in and open left menu (Pic 7a/b), click on the upper left corner "+" button to add a vehicle, select the vehicle type .(2/3/4/6~36 wheel) (Pic 8a/b)
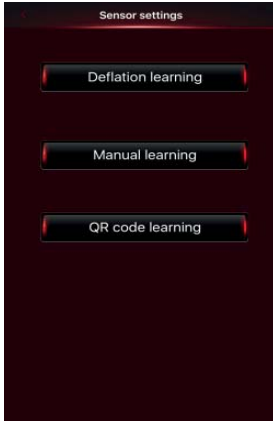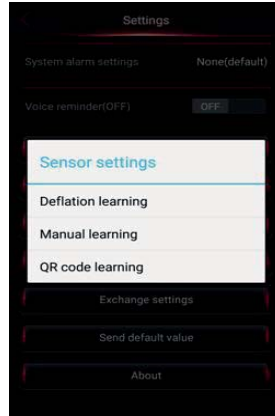

Pic 8a

Pic 8b

10

7.2 Sensor Settings

Pic 9a

Pic 9b

1

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.
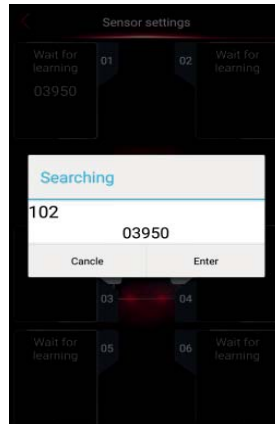
Deflation set up:
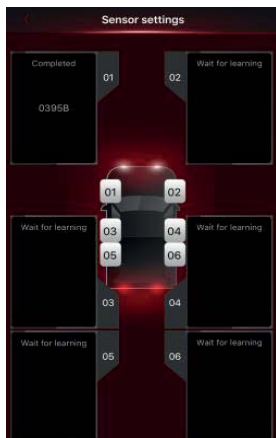(not applicable for The external sensors, works only with internal sensors also available.)
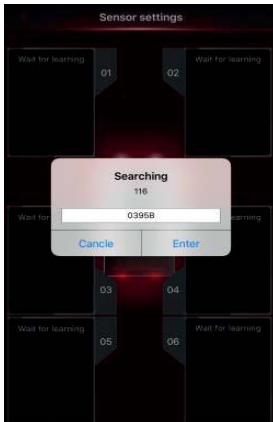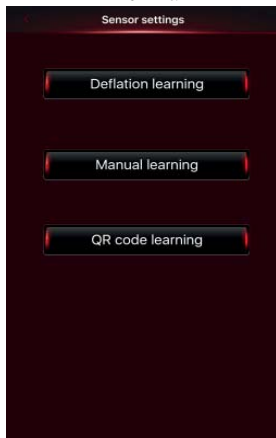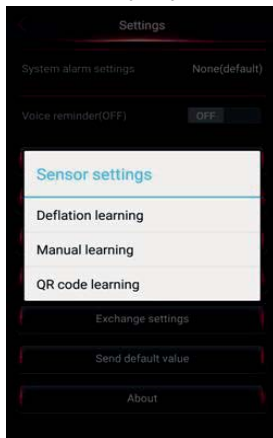

Pic 10a

Pic 10b

iOS version

Android version

Pic 11a

Pic 11b

Pic 12a

Pic 12b

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

12
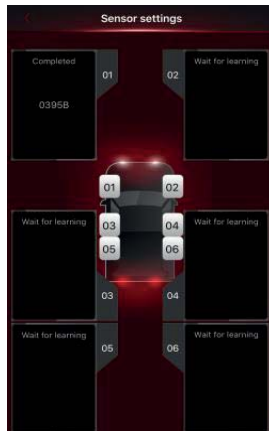
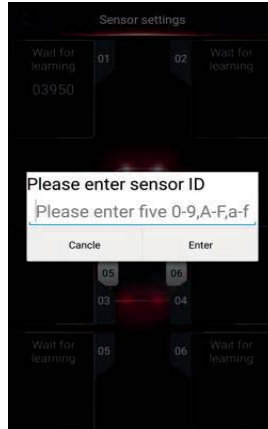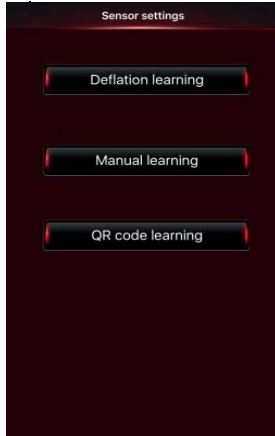| iOS version	Android version
Pic 13a	Pic 13b

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 13a/b) The sensor ID is also etched on the top of each sensor.

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.

Pic 14a	Pic 14b

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

English

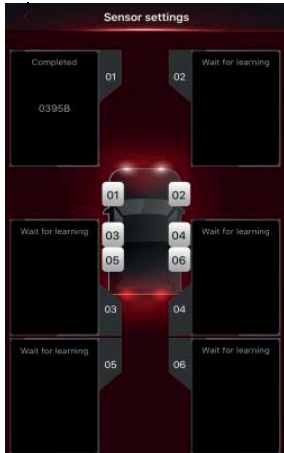| iOS version	Android version
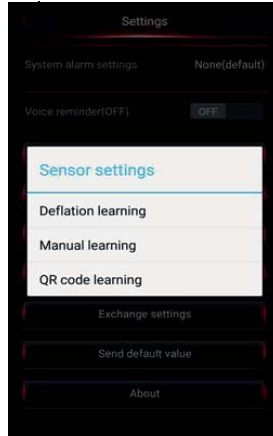
Pic 15a

Pic 15b

QR Code set up:

Select QR Code Settings. (Pic 15a/b)

Pic 16a

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.

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iOS version

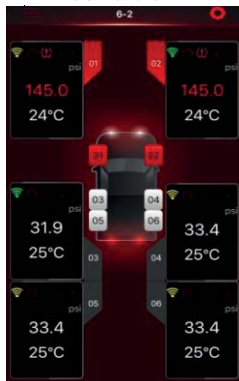**Android version**

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
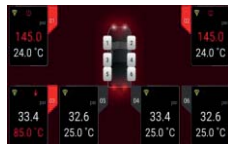

Pic 18a

Android version

Pic 18b

System Warning

Pressure, temperature and voice warning. (Pic 18a/b) 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. (Pic19a/b)

Warnings

📶 No signal available for the device (shows in red)

◉ Rapid deflation of tire pressure

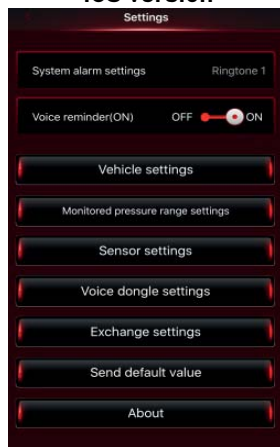⚠ High or low pressure warning (based on your settings)

🌡 High tire temperature (based on your settings)
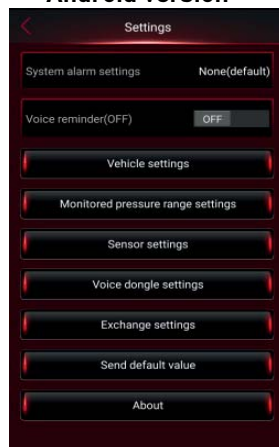
🔋 Low battery power warning for TPMS sensor

iOS version

Pic 20a

Android version

Pic 20b

System Settings: (Pic 20a/b)

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)

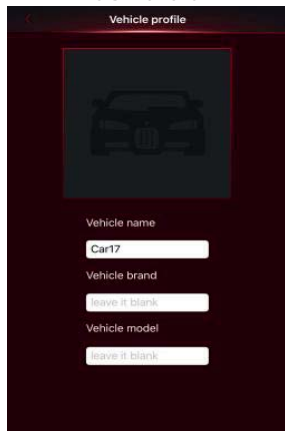**Exchange settings:** Tire exchange settings. (9.4)

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".
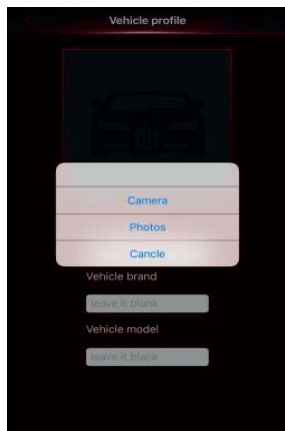
9.1 Vehicle Settings

iOS version	Android version
Pic 21a	Pic 21b

System Settings:

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

Pic 22a	Pic 22b

2. Select Camera or Photos. then press the "Back "button to save the settings. (Pic 22a/b)
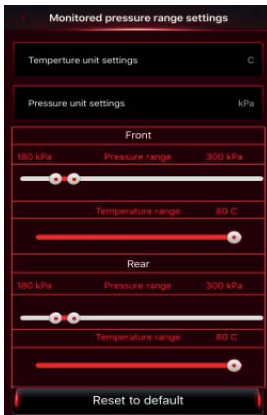
9.2 Monitored Pressure Range Settings
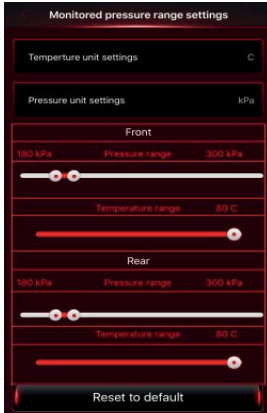
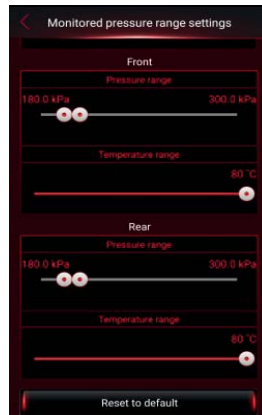**iOS version** | **Android version**

Pic 23a

Pic 23b

Monitored Pressure Range Setting：

Select Monitored Pressure Range Settings (Pic 23a/b) ,
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 24a/b) 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:
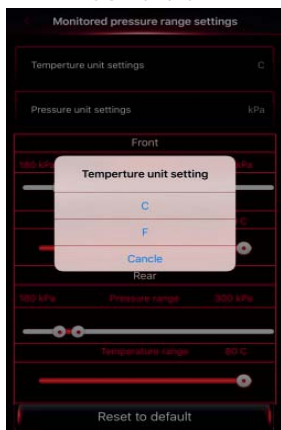psi= 43; kPa= 300; Bar= 3.0
Minimum Tire pressure:
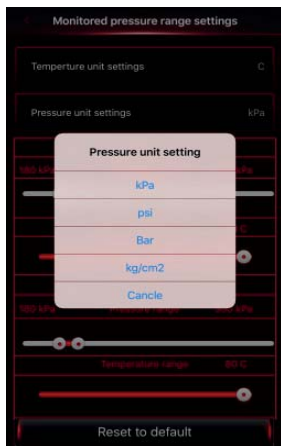psi= 26; kPa i=180; Bar= 1.8
Maximum Temperature:
˚C= 80; ˚F= 176

iOS version

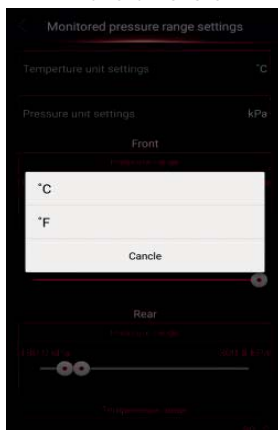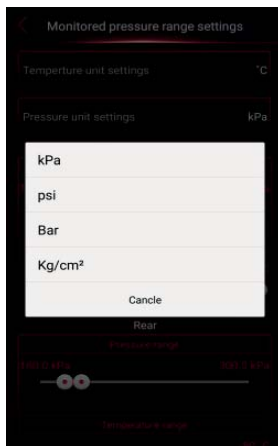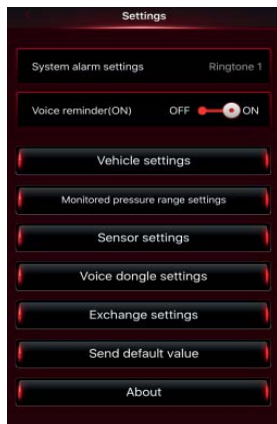**Android version**

Pic 25a

Pic 25b

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

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

Pic 26b

Pic 26b

9.3 Optional Voice Dongle Settings

iOS version

Pic 27a

Android version
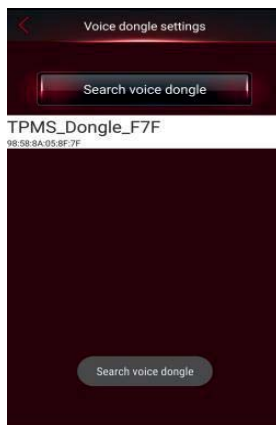
Pic 27b

Voice Dongle Set Up:

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

NOTE: If kit is purchased with the dongle it will already be paired to the sensors.

1. To pair dongle to sensors, 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 27a/b)

Click "TPMS_Dongle_sn" (random serial number) (Pic 28a/b).

Pic 28a

Pic 28b

iOS version

Pic 29a

Android version
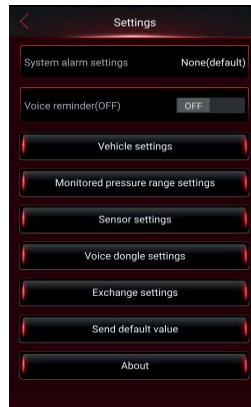
Pic 29b

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

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.
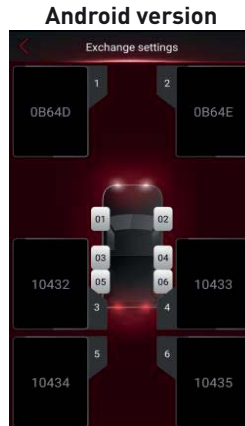
Double click: Tire Status Report.

9.4 Exchange Settings

iOS version

Android version

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.

Pic 30a
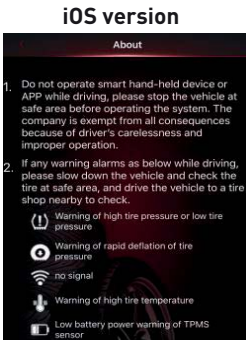
Pic 30b

9.5 About

iOS version

Android version

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

Pic 31a

Pic 31b

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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.