

# **Table of Contents**

1. PRODUCT INTRODUCTION	.3
2. NOTICE	.3
3. BLE TPMS SPECIFICATION	.4
4. BLE TPMS PACKAGE	.5
5. BLE TPMS SENSOR INSTALLATION	.5
6. APP DOWNLOAD AND INSTALLATION	.7
7. SETTINGS & ADD DEVICE	.8
8. SYSTEM SETTINGS	12
9. ALARMS AND WARNINGS	18
10. FREQUENTLY ASKED QUESTIONS	1 <u>9</u>

## **1. Product Introduction**

With the new technology product: Bluetooth Tire Pressure Monitoring System (hereinafter referred to as BLE TPMS), the driver could get the accurate tire pressure and temperature at any time through smart phone by using this kit while driving. When the system detects abnormal status, it will alarm the driver actively, and show the abnormal data and its tire location on the "Vigorplus TPMS" APP (hereinafter referred to as APP).

## 2. Notice

**Product Warning** 

# 2.1.1 Please completed APP settings before driving, 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 utilizes the wireless transmission of signals. In some special environments, frequency interference, faulty operation or faulty installation may result in weaker signals or inability to receive signals. If the insulation adhesive sticker 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 replace with a new one immediately to ensure that BLE TPMS can normally operate.

**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 unused APPs or web pages while using the APP. Data receiving status of the APP may be affected by the loading of the smart phone.

Operating Voltage Range	3V
Operating Humidity	≦95%
Operating Temperature	-20°C to 85 °C
Storage Temperature	-40°C to 85 °C
Pressure Monitoring Range	0 to 92 psi (0 to 640 kPa)
Temperature Monitoring Range	-20 °C to 85 °C
Temperature Reading Tolerance	± 4°C
BLE Operating Frequency	2400MHz~2483.5MHz
RF Transmitter Power	4 dBm MAX
Average Idle Current	< 5uA at DC 3V
Average Running Current	< 22uA at DC 3V (Tx Interval:60s)
Transmitter Current (25°C)	< 15mA at DC 3V
Battery Life	> 1 year (under normal operating condition)
Normal Battery Capacity	Renata CR1632, DC 3V, 137mAh
APP Support	iOS, Android

# **3. BLE TPMS Specification**

## 4. BLE TPMS Package

BLE TPMS Sensor

User Manual

CR1632 Battery

Lock-Nut (Anti-theft Nut)

Wrench Tool

#### **5. BLE TPMS Sensor Installation 5.1 BLE TPMS Sensor Accessories**



1. Anti-theft nut / 2. Anti-theft plate / 3. Sensor / 4. Battery / 5. Wrench

#### 5.2 Installation Steps

This product is recommended with metal valve or replace the original valve regularly to ensure better quality.

Step 1

Lock the lock-nut the root of the valve thread.



Step 2

Use the wrench to tighten the screw to complete the installation and then start to use.



Step 3

Apply soap water on valve stem nut to check whether produce bubble and air leakage. No bubbling means correct installation. In case there is bubbling, please re-install according to the procedure.



After installation, please download the APP to your smart phone, and proceed with all settings. (Please check item 7 Initial Setting)

### 6. APP Download and Installation

#### 6.1 Operation System Required

TPMS system supports both smartphone for Android & iOS operation system. (Bluetooth 4.0)  $\,^\circ$ 

APP Download	Operation System	Compatible Smartphone
APPLE APP Store	iOS 8.0 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 "VIGORPLUS TPMS", in order to find the free APP.(

After you install the APP, please reboot and make sure Bluetooth is enabled. Open the APP after installation is completed. A statement from the operation 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				Android version
Turn On Blue	Allow "VigorplusTPMS"		rplusTPMS"	Bluetooth not enabled
Allow "Vigor Connect to A	plusTPMS" to Accessories	even when you are not using the APP		Please enable bluetooth in settings and restart this application.
Settings	ОК	Don't Allow	Allow	ок

# 7. Settings & Add Device

#### 7.1 Introduction of Contents

Please make sure the "Bluetooth" & "Location Service" Settings functions are enabled when you start to use the APP.

iOS version	Android version	



Main Menu: Sign in successfully, open Left menu, click on the upper left corner "+" button to add a vehicle, select the vehicle type.

This installation process can be implemented in Multi tires combination.

Click on the upper left corner"

"button to import data In the "Quick use" to add new vehicles and return, enter the "Cloud login", click "import" button, you can add "Quick use "vehicles to the "Cloud login". (This feature MUST network connection).

7.2 Sensor Settings



iOS version	Android version	
Sensor settings	Sensor settings	<ul> <li>3.QR Code completed.</li> <li>Using the same method, set up the ID learning for tires in sequence.</li> <li>4.Long press on data field to clear the ID.</li> </ul>

# 8. System Settings

iOS version	Android version	
< Settings	< Settings	System Settings:
Power saving mode (ON) OFF - ON	Power saving mode (ON) OFF - ON	Warning Audio Settings: warning Audio and mute .
System alarm settings Ringtone 1	System alarm settings Ringtone 1	Voice reminder: voice OFF/ON
Voice reminder (ON) OFF ••ON	Voice reminder (ON) OFF •—••ON	Vehicle settings: vehicle edit. Monitored pressure range settings:
Vehicle settings	Vehicle settings	Select kPa   psi   Bar   Kg/cm2 4
Monitored pressure range settings	Monitored pressure range settings	different pressure unit $^{\circ}C \times ^{\circ}F$ 2
Sensor settings	Sensor settings	different temperature unit and
Voice dongle settings	Voice dongle settings	upper and lower limits.
Voice dongle settings retrieval	Voice dongle settings retrieval	Sensor settings: Enter the sensor
Exchange settings	Exchange settings	settings when using for the first
Export data	Export data	time.
About	About	Exchange settings: Tire exchange
		settings.
		Send default value: Settings value
		history record keeping.
		About: Disclaimer
8 1 Vehicle Settings	1	1

8.1 venicle Settings

Android version iOS version



0	U	
iOS version	Android version	

Monitored pressu	re range settings	Monitored pressure range settings		Monitore	d Pressure Range Settings:
Temperture unit settings C		Front		Select Monitored Pressure Range	
g.		Pressure range		Settings.	
Pressure unit settings	kPa	180.0 kPa 300.0	) kPa	1.Change	settings on "front wheel"
Fro	int			and "rear	wheel" then press the
180 kPa Pressure	e range 300 kPa	Temperature range	30.10	"Back" bu	tton to save the settings.
			•	You can p	ress "Reset to default" to
Temperatu	ure range 80 C	Rear		reset all s	ettings.
Pa	•	Pressure range		Note 3: Fo	or the standard tire pressure
180 kPa Pressure	e range 300 kPa		-	value, ple	ase refer to the placard
<u> </u>		Temperature range		located at	the side of the driver's
Temperatu	ure range 80 C		30 °C	seal.	
	•		•	Maximum	Temperature 80 °C default
Reset to	default	Reset to default		= 80 °C (1	<b>76</b> °F)
				00 (1	
	Minimum	Lower limits range	Ma	avimum	Unner limits range
	tire pressure	Lower mints range	tiro	nroccuro	opper millio range
	26nci	Onci 26nci	uie	12nci	40nci 02nci
2 ` 3 ` 4	190600		2	+2h2i	40psi-92psi
wheel	1 Oker	Oker 2 Sher	5	UUKPd	200 kpar C 4 har
	1.80ar	0 bar-2.50 ar	3		
	1.8kg/cm <sup>2</sup>	Ukg/cm <sup>2</sup> -2.6 kg/cm <sup>2</sup>	3.1	.kg/cm²	2.9kg/cm²-6.5 kg/cm²
6/38	100psi	0-110psi	1	.50psi	115psi-217psi
wheel	690kPa	0kPa-760kPa	10	)34kPa	790kPa-1500kPa
	6.9bar	0bar-7.6bar	1	0.3bar	7.9bar-15.0bar
	7.0kg/cm <sup>2</sup>	0 kg/cm <sup>2</sup> -7.8 kg/cm <sup>2</sup>	10.	5kg/cm <sup>2</sup>	8.1 kg/cm <sup>2</sup> -15.3 kg/cm <sup>2</sup>
iOS ve	ersion	Android version			





2.Temperature Unit:  $^{\circ}C$ ,  $^{\circ}F$ ; 2 different temperature units, then press the "Back "button to save the settings.

3.Pressure Unit: kPa, psi, Bar, Kg / cm2 4 different pressure units, then press the "Back "button to save the settings.

#### 8.3 Exchange Settings

iOS version	Android version	
C Exchange settings	CExchange settings	Tire Exchange Settings: 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.

8.5 About

iOS version	Android version	
-------------	-----------------	--



## 9. Alarms and Warnings



1. 🛜 No signal

The phone cannot receive any signal: red symbolizes

- 2. Warning of rapid deflation of tire pressure Any tire pressure that decreases rapidly.
- 3. (!) Warning of high tire pressure or low tire pressure

Tire pressure is higher than maximum tire pressure value or lower than minimum tire pressure value on the APP.

4. Warning of high tire temperature

Tire temperature is higher than temperature maximum value on the APP.

5. Low battery power warning of TPMS sensor Battery power of TPMS sensor is low.

## **10. Frequently Asked Questions**

1. Q: 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 on the vehicle with driving speed over 20 km per hour, or the vehicle is ignited after parking more than ten minutes, or the tire pressure difference at the moment is 30 kPa. During other times, 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. Q: Smart phone has completed the installation of the APP, the sensor ID settings are done, and the vehicle is being driven, but no data is shown.

A: Please restart the start phone and check if Bluetooth was turned off.

3. Q: There is no alarm sound or voice warning for abnormality of tires.

A: Please check if the start phone has gone in silent mode or if the volume has been turned to lowest.

- 4. Q: There is alarm sound for tire abnormality but no voice warning.
  - A: Some Android smart phones do not support voice services.