

Table of Contents

1. Product Introduction.....	2
2. Notice.....	2
3. BLE TPMS Specification.....	3
4. BLE TPMS Package	4
5. BLE TPMS Sensor Installation	5
6. Introduction of Voice Alert Display.....	6
7. APP Download and Installation	11
8. Alarms and Warnings.....	14
9. Frequently Asked Questions.....	14
10. Warranty Policy.....	15

1. Product Introduction

With the new technology product: Bluetooth Low Energy Tire Pressure Monitoring System Retrofit Kit (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 Multi Wheel Bluetooth TPMS APP (hereinafter referred to as APP).

2. Notice

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 go as soon as possible to a specified service station to confirm whether the TPMS sensor needs to be replaced. You will take all the risks and responsibilities if you do not change the sensor when the low battery sensor warning is displayed.

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.

3. BLE TPMS Specification

BLE Sensor Specification	
Operating Voltage	3.0V
Operating Humidity	95% MAX
Operating Current	< 15mA at DC 3V

Storage Temperature	-40°C to 85°C
Operating Temperature	-20°C to 85°C
Monitored Pressure Range	Passenger: 0 to 92psi (0 to 640kPa) Truck: 0 to 185psi (0 to 1280kPa)
Monitored Temperature Range	-20°C to 85°C
Operating Frequency	2.4GHz
Transmission Power	4dBm MAX
Battery Life	3 years (under normal operating condition)
Battery Capacity	540mAh
Weight	24g (body) +14g (valve)

Voice Alert Display Specification	
Operating Voltage	DC 12V/24V
Operating Humidity	90% MAX
Operating Temperature	-20°C to 70°C
Storage Temperature	-25°C to 85°C
Operating Current	0.25A@12V, 0.2A@24V
Sound Pressure (min.)	85dB@15cm
Battery voltage detector	DC 5V~32V, ±0.1V
Operating Frequency	2.4GHz
Receiving sensitivity	< -85dBm
RF Transmitter Power	4dBm MAX
View angle	12 O'clock
Weight	33±2g

4. BLE TPMS Package

SBT-36 Series	SBT-30 Series
BLE TPMS Sensor	BLE TPMS Sensor
Valve	Valve
Screw	Screw
User Manual	User Manual
Voice Alert Display	

5. BLE TPMS Sensor Installation

5.1 BLE TPMS Sensor Accessories



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

5.2 Installation Steps

	<p>(Fig. 1) Loosen the tire: fix both sides of the tire, press and make it bulge.</p>
	<p>(Fig. 2) Remove the tire: the valve faces the mounting arm in the one o'clock direction when removing the tire.</p>
	<p>(Fig. 3) Install the sensor and valve: insert the valve through the rim hole, fix the screw to secure the valve and sensor by 2Nm ~ 2.5Nm in torque, attach the sensor body to the inner surface of the rim by adjusting the angle of the sensor body.</p>
	<p>(Fig. 4) Install valve to the rim hole: guide the washer into the valve, and fix the nut by 3.5Nm ~ 4Nm in torque, then tighten the cap.</p>
	<p>(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.</p>

Note 1: After installation, recalibrate the rim set on the balance machine to avoid shaking during driving.

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. Introduction of Voice Alert Display

6.1 Product description



6.2 Function description

If you need to use the car cigarette lighter extension, it is recommended that you use the input: DC 12 / 24V; Output: DC 12 / 24V car cigarette lighter expansion stand (does not include USB port), and according to standard IEC 60950-1.

6.2.1 Monitoring Mode

“Monitoring mode” provide 3 kind of value: Pressure, Temperature and Battery Voltage. Please press and hold the left button for 1.5 seconds to enter into “ID mode”.(6.2.2)



1. Pressure, Temperature and

Battery Voltage Switch: Please press the left button once.

2.Switch Units: Please press the left button twice.

3 .kinds of pressure units: kPa → psi→bar。

Temperature Units: °C→°F

6.2.2 ID mode

Display each sensor ID number. Please press and hold the left button for 1.5 seconds to enter into “Settings mode”. (6.2.3)



6.2.3 Settings mode

The product provide 3 kind of Monitored Settings : Monitored Pressure Range Settings of front tires、 Monitored Pressure Range Settings of rear tires and Temperature range. Please press and hold the left button for 1.5 seconds to exit “Settings mode”, and back to “Monitoring mode” (6.2.1) or saving new settings and reboot.(6.2.4)

	<p>Monitored Pressure Range Settings of front tires:</p> <p>Please press and hold the left button for 1.5 seconds. And press the left button twice; it will display upper and lower limits.</p>
	<p>Press the right button once to increase up 2.5kPa (0.36psi/0.1bar), and press the left button once to reduce down 2.5kPa (0.36psi/0.1bar) .Minimum Tire pressure: 10-250kPa (1.4-36.2psi/0.1-2.5bar). Maximum tire pressure: 280-640kPa (40.6-92.8psi/2.8-6.4bar).</p>
	<p>The factory default tire pressure value range is 180 kPa (26psi/1.8bar) to 300kPa (43psi/3bar). Switch pressure range of rear tires: Please press left button once when stop status.</p>

	<p>Temperature range settings: Press the left button twice and showing default range.</p>
	<p>Press the right button once to increase up 1 °C(1.8 °F), and press the left button once to reduce down 1 °C(1.8 °F) .</p> <p>Tire temperature range: 60~80 °C (140~176 °F).</p> <p>Stop status: Please press the left button twice again; it will just display default value.</p>

6.2.4 Save sensor ID number and settings

Learning new sensor ID number or change settings (Monitored Pressure Range Settings of front and rear tires, Temperature range settings), press and hold left button to exit “Setting mode” for 1.5 seconds, it will display “Update” and save settings when setup completed, the system will reboot.

6.2.5 Right button functions description

Monitoring all tire Pressure, Temperature and Battery voltage. Mute/un-mute: Please press the right button once. Mute status, it won't voice remind if warning occurs. You can manual un-mute or wait 10 minutes for the mute function to cancel automatically.

Tire status report: Please press the right button twice. And press the right button again can stop.

Switch pairing mode: Press and hold the right button for 1.5 seconds.

6.2.6 Alarms and Warnings

When the system detects abnormal status of tire pressure, tire temperature and battery power, it will flash and alarm the driver actively, and show the abnormal data and its tire location on the TPMS Monitor.

7. APP Download and Installation

7.1 Operation System Required

TPMS system supports both Smartphone for Android & IOS operation system. (Bluetooth 4.0).

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

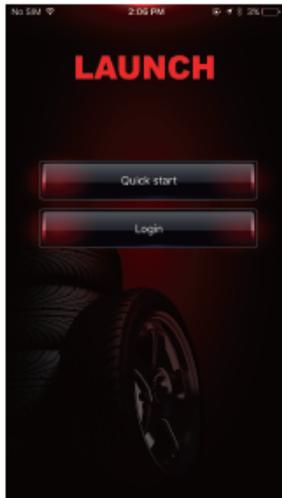
7.2 How to Download

Search in the Google Play Store or APPLE APP Store by keyword “LAUNCH TPMS”, in order to find the free APP. After you install the APP, please reboot and make sure Bluetooth is enabled.

7.3 Settings & Add Device

7.4 Sensor settings

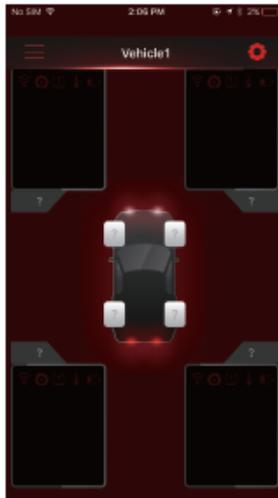
LAUNCH



Login in



BLUETOOTH TPMS USER MANUAL



TPMS Mode



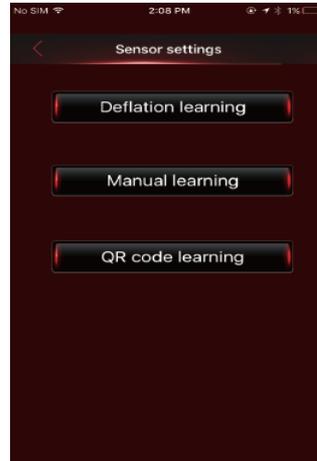
Sensor settings

7.4.1 Monitored Pressure Range Settings



Choose pressure Unit: kPa, psi, Bar, Kg/cm², and temperature unit °C, °F. And choose the minimum and maximum values.

7.4.2 Sensor setting



1. Deflation learning: Choose tire and deflate the tire pressure. The APP will look for the deflation signal, showing new ID number on the dialogue display. You can press "OK" to finish this step or press "Cancel". It takes approximately 120 seconds to perform this step. **2. Manual Learning:** 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. **3. QR Code learning:** Long press on data field to clear the ID.

7.4.3 Voice dongle settings



Recommend for 5V/2A car USB power charger adapter for voice dongle. Press the red voice dongle button for 1.5 seconds. When you hear “beep,” you will go into the Bluetooth pairing mode (LED: flicker of Red and Blue light).

7.4.4 Tire Exchange Settings



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

8、 Alarms and Warnings

When abnormal tire system status occurs, the value of the corresponding tire turns red, and it alarms with a sound and warning symbol. The warning symbols on each tire display, from the left to the right, are: no signal, rapid deflation, tire pressure warning, tire temperature warning and low battery power of sensor.

If you do not want to hear the sound from the APP, please press mute and turn off voice reminder.

1.  No signal
The phone can not 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.

9. Warranty Policy

Thank you for buying this product and giving us support. From the date of purchase, we provide a one-year warranty for the product, protecting the client's interest by providing product quality assurance. During the warranty period, under normal operation and in the event of a faulty product, the company is willing to repair the faulty product or have it replaced, enabling you to get the guarantee and demonstrating the company's responsible attitude toward products. But the product warranty must meet the following conditions:

1. Defective products need to be provided to local dealer to confirm purchase date and cause of defect.
Products must be operated correctly, as indicated in the user manual.
2. Product has not been disassembled by yourself.
3. The main cause of product failure is due to manufacture issues.

10. Disclaimer

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