

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

FCC Notice

This device complies with Part 15 of the FCC Rules. 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.

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 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.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 0.5 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 0.5 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Specification	
Operating Voltage	DC 12V/24V
Operating Humidity	90% MAX
Operating Temperature	-20°C to 70°C
Storage Temperature	-25℃ to 85℃
Operating Current	0.25A@12V, <u>0.2A@24V</u>
Sound Pressure (min.)	85dB@15cm
Battery voltage detector	DC 5V~32V, ±0.1V
Operating Frequency	2400MHz~2483.5MHz
Receiving sensitivity	< -85dBm
RF Transmitter Power	4dBm MAX
View angle	12 O'Clock
Weight	20g

1. Introduction of Smart Voice TPMS Monitor

1.1 Product description



1.2 Function description

1.2.1 Initial setting



1.2.2 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".(1.2.3)



Display	Descriptions
SYSGRATION 24 24 double click button Pic 5 SYSGRATION 24 24 one click button SYSGRATION 24 24 or for for for for for for for for for f	Temperature data of sensors Switch Temperature Unit : Please press the left button twice. It displays 2 kinds of temperature units, °C and °F in sequence. Switch Battery Voltage : Please press the left button once.(Pic 6)
Pic 6	
SYSGRATION	Battery Voltage Display the voltage real time. (Pic 7) Switch Pressure Unit : Please press the left button once.(Pic 8)
Pic 7	
SYSGRATION SYSGRATION	
Pic 8	

1.2.3 ID mode

Display each sensor ID number. Please press and hold the left button for 1.5 seconds to enter into "Settings mode" .(1.2.4)

Display	Descriptions
SYSGRATION FL- SYSGRATION FL- SYSGRATION SYSGRATO	Display sensor ID number Switch tire Location: Please press the left button once, the order of the tire location is front-left (FL) \rightarrow front-right(Fr) \rightarrow rear-left (rL) \rightarrow rear-right(rr). (Pic 9) Deflation Learning new sensor ID: Please press the left button twice.
Pic 9	
SYSGRATION FL: double click button Fic 10	Learning new sensor ID number Learning new sensor ID: Please press the left button twice. Choose front-left (FL) tire, sensor ID number "12345", reset sensor ID number to "" and search new sensor ID number, to deflation the tire need more than 15 seconds, It will look for the deflation signal, showing new ID number on the display.(Pic 10)

SYSGRATION	Deflation completed, display new ID
FL -	number "16888".(Pic 11) Using the same
12 345	method, set up the ID number learning for
SYSGRATION	tires in sequence.
FL -	If learning fail, it will showing pervious ID
15 888	number"12345"
Pic 11	Stop learning: Please press the left button once.

1.2.4 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" (1.2.2) or saving new settings and reboot.(1.2.5)









Please press and hold left button for 1.5 sec to enter into "Monitoring mode" (1.2.2) or "Save sensor ID number and settings" (1.2.5)

1.2.5 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.

Display	Descriptions
SYSGRATION LIP & REE	Save sensor ID number and settings Display "Update" and save new settings, when setup completed, the system will reboot. (Pic 24)
Pic 24	

1.2.6 Right button functions description

Display Descriptions Monitoring mode: Pressure Temperature
Sattery voltage. (Pic 25) Mute/un-mute: Please press the right button once. Mute status, it won't voice remind if warning occurs. You can manual unmute or wait 10 minutes for the mute Pic 25a Pic 25b 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 120 right button for 1.5 seconds. Pic 25c Pairing mode (Pic 26) Using mobile phone app to Settings (9.1). Switch Monitoring mode: Press the right button once. Pic 26

Monitoring all tire Pressure, Temperature and Battery voltage.

1.2.7 Alarms and Warnings

Display	Descriptions
SYSGRATION Pic 27	Warning of high tire pressure or low tire pressure. (Pic 27) When the system detects abnormal status, it will flash and alarm the driver actively, and show the abnormal data and its tire location on the TPMS Monitor.
SYSGRATION ⁷ ⁴ ⁷ ⁷ ⁴ ⁷	Warning of high tire temperature. (Pic 28) When the system detects abnormal status, it will flash and alarm the driver actively, and show the abnormal data and its tire location on the TPMS Monitor.
SYSGRATION	Low battery power warning of TPMS sensor. (Pic 29) When the system detects abnormal status, it will flash and alarm the driver actively, and show the abnormal data and its tire location on the TPMS Monitor.

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.
- 2. Products must be operated correctly, as indicated in the user manual.
- 3. Product has not been disassembled by yourself.
- 4. The main cause of product failure is due to manufacture issues.

Disclaimer:

This product is only to be used as precautionary warning and provides to user as a 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.

Other relevant latest information of SYSGRATION TPMS is available at our website (<u>http://www.sysgration.com/</u>) and our Facebook Page (<u>http://www.facebook.com/sysgration</u>) for latest information.