

Wireless tire pressure
monitoring System

TPMS-S1



24 hours monitoring,
Comprehensive tire care

Instruction manual

Brief introduction

Car tires are the most important components of a car, and have significant relationship to driving safety. The traffic accident caused by tire is shocking. According to traffic accident statistics of the relevant departments: 70% of highway traffic accidents are caused by tire explosion in China, and as high as 80% in America. In fact, it's critical to safe driving in maintaining the standard tire pressure and finding tire leak timely.

At present, when a car is under driving, the data and status of the vehicle speed, the circle, the water temperature, the oil, the safety belt, the ABS brake and so on are shown on the instruments, while no display and alarm of tire pressure and temperature. But wireless tire pressure monitor can solve this problem!

Special tips

1. This product is a 'proactive' type of car safety system, which can provide a very effective warning for the owner, but it can't predict sudden tire damage and can't stop the occurrence of accidents.
2. Please install and use this product in the permitted range. If there is any use beyond the scope, our company will not be responsible for all the consequences arising there from !
3. The range of the threshold should be strictly complied with in setting the threshold. Different models should be installed in accordance with the parameters or specifications of the tire, or the agent given scope. Generally the settings don't have to be modified once the system is set up. If there are any product failure or consequences caused in self setting or improper settings or operations, our company will not take the responsibility arising there from.
4. The contents of the written instructions shall be changed without notice.
5. Make sure to hire experienced technician to install or assembly; Please do not damage the emitter if the tires have to be torn down again.

Sensor



Technical parameters

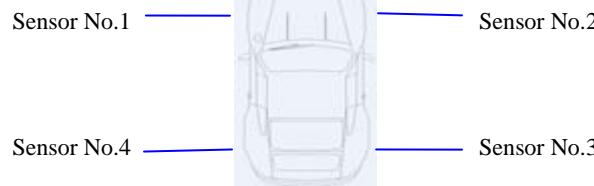
Transmitter

| Project | Content |
|--------------------------------|--------------|
| Working voltage | DC 2.1V-3.6V |
| Working frequency | 433.92MHZ |
| Working temperature | -40°C +125°C |
| Pressure detection range | 0-3.5Bar |
| Pressure detection accuracy | ±0.1Bar |
| Temperature detection range | -40°C +125°C |
| Temperature detection accuracy | ±3°C |

TPMS-H6 Sketch map of sensor installation as below:

Remove the original valve nozzle of the car, mount the sensor with a pressure detection module on the wheel hub, as shown below:

No. 1 Sensor mounted on the left front wheel, No. 2 Sensor mounted on the right front wheel, No. 3 Sensor mounted on the right rear wheel, No. 4 Sensor mounted on the left rear wheel.



Finally do dynamic balance of the sensor installed tire, as shown below:



Threshold of various alarm functions

| No. | Fault state | Warning condition |
|-----|------------------------|--------------------------------------|
| 01 | High pressure alarm | Tire pressure value exceeds 3.0Bar |
| 02 | Low pressure alarm | Tire pressure is lower than 1.8Bar |
| 03 | High temperature alarm | Inside tire temperature exceeds 70°C |

Functional operation instructions

Boot description

In normal state, press the query key for 5 seconds and the system enters into sleep state. LED does not show and does not accept data. In sleep state, press the query for 5 seconds to wake up system, and enter normal working state.

Vibration switch

1. Standby state

The system enters standby mode when the system does not detect any vibration signal for 10 minutes.

2. Standby state wake up

The system shifts from standby state to working state when the system detects any vibration signal in standby mode.

Re lock code

The system will delete all previous data when you press the query key to keep it up for 5 seconds, All tires will all renew codes.

Standby settings

In normal state, press the query key for 5 seconds and the system enters into sleep state. LED does not show and does not accept data. In sleep state, press the query for 5 seconds to wake up system, and enter normal working state.

Data query

Press the query key to check the pressure and temperature values of each tire. If the data are normal, the corresponding LED light turns blue.

Alarm setting

Press the key 'UP' and the system enter the pressure setting. Left for low pressure alarm, right for high pressure alarm setting. Press the query key to adjust the data value, between 1.0 to 2.0 bar. After the low pressure value is set up, press again the key 'UP' to enter the setting of the high pressure value, between 2.6 to 3.5 bar. After the high pressure value is set up, press again the key 'UP' and the system enter the working state, shown as below:



Alarm function

The product alarms when the tire pressure is lower than the low value, higher than the high pressure or temperature higher than 70 degree. Alarm mode is buzzer alarm, and the corresponding tire LED light turns red. Buzzer alarm time is 10 seconds, the buzzer stops after 10 seconds after, so repeatedly. (The buzzer stops alarm in these 10 seconds if there is a press on query key.)

1. Low pressure alarm:

The Buzzer sound prompts 10 times when the pressure is lower than low pressure value. The receiver screen displays the corresponding emitter data and the corresponding car tire LED light turns red. Alarm information displays by turns if there are multiple transmitter alarms.



Low pressure alarm

2. High pressure alarm:

The Buzzer sound prompts 10 times when the pressure is higher than

high pressure value. The receiver screen displays the corresponding emitter data and the corresponding car tire LED light turns red. Alarm information displays by turns if there are multiple transmitter alarms.



High pressure alarm

3. High temperature alarm:

The Buzzer sound prompts 10 times when the temperature is higher than high temperature value. The receiver screen displays the corresponding emitter data and the corresponding car tire LED light turns red. Alarm information displays by turns if there are multiple transmitter alarms.



High temperature alarm

4. No signal alarm:

The product alarms when there is no signal transmitter, and the screen shows ‘—,—’. Alarm information displays by turns If there are multiple transmitter alarms.



No signal alarm

Tire transposition setting

Press the key ‘Down’ and the system enters tire transposition setting. In the setting process, the LED lamp is lit up in blue. On the left side of the LCD screen is a symbol of the sensor code on the tire, on the right side displays a symbol of the sensor code after tire transposition. After setting up a tire, press the key ‘Down’ and the system enters next tire setting. Press the query key to change the sensor code during the process. After the completion of the 4 tires, press the key ‘Down’ to exit the setting.



Sensor No.1 change to Sensor No.3

Warranty card

**For this product we provide the customer with a
warranty service within 1 year from the purchase date.**

Warranty condistions: Please fill in related content and show this warranty card when you need warranty service. Be noted our company only provide the user with a warranty service within 1 year from the purchase date.

Warranty coverage: The product quality problems occur in normal use.

Customer name : Car No.:

Product name : Product number :

Production date : Purchase date :

Remarks:

FCC Caution.

§ 15.19 Labelling requirements.

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.

§ 15.21 Information to user.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

§ 15.105 Information to the user.

Note: 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 or more 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.

Modular user manual

“Only those antenna(s) tested with the device or similar antenna(s) with equal or lesser gain may be used with this transmitter.”

Modular Approval:

The TPMS-S1 module is designed to comply with the FCC statement. FCC ID is 2AFEFS5581851. The host system using TPMS-S1, should have label indicated it contain modular's FCC ID 2AFEFS5581851

This radio module must not be installed to co-locate and operating simultaneously with other radios in host system, additional testing and equipment authorization may be required to operating simultaneously with other radio