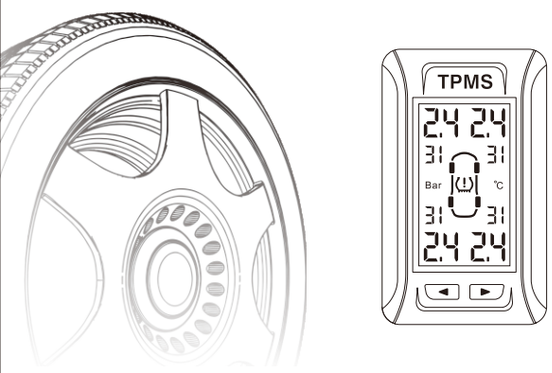
LCD tire pressure monitoring system user's Guide



Note: Special product, professional installation. It is recommended to find an experienced installation point for installation.

1. Product overview

TPMS is an automobile tire pressure monitoring system "Tire Pressure MonitoringThe abbreviation of "System" is what we call a direct tire pressure monitoring system.

TPMS was first used as a dedicated vocabulary in July 2001. The US Department of Transportation and the National Highway Safety Administration (NHTSA) responded The U.S. Congress has jointly evaluated the two existing tire pressure monitoring systems (TPMS) as required by the legislation requirements for the installation of TPMS on vehicles, and confirmed the superior performance and accurate monitoring capabilities of the direct TPMS. Thus, the TPMS automotive tire intelligent monitoring system As one of the three major safety systems of automobiles, together with automobile safety air bladder and anti-lock braking system (ABS), it has been recognized by the public and received due attention.

2. Assembly list

1、Product host　　2、Wire harness

3、Manual, warranty card

4、Certificate of conformity

3. Performance

Operating Voltage：12V

Working current：⩽50mA

Operating temperature：-30℃~+80℃

4. Function Description

Tire pressure warning

Pressure and temperature monitoring

real-time monitoring

Data synchronization display

Four rounds of the same display

Data at a glance

Buzzer

When abnormal, buzzer prompt

Wireless data transmission

No wiring, wireless data transmission

Easy to install

Easy to disassemble and install

1、Prevent accidents

The tire pressure monitoring system is a kind of active safety equipment, which can be used when the tires show signs of danger. Call the police in time to remind the driver to take corresponding measures to avoid serious accidents。

2、Extend tire life

With the tire pressure monitoring system, we can keep the tires at the specified pressure and temperature at any timeWork within the range, thereby reducing tire damage and extending tire service life. Some data show that when the tire pressure is insufficient, when the wheel pressure drops 10% from the normal value, the tire life will be reduced by 15%.

3、Make driving more economical

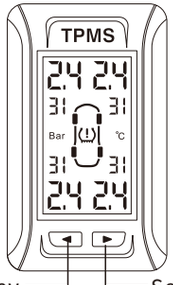
When the air pressure in the tire is too low, the contact area between the tire and the ground will increase, thereby increasing the friction. When the tire pressure is 30% lower than the standard pressure value, the fuel consumption will increase by 10%.

4、Can reduce the wear of the suspension system

When the air pressure in the tire is too high, it will reduce the damping effect of the tire itself, thereby increasing the vehicle's reduction.The burden of the shock system, long-term use will cause great damage to the engine chassis and suspension system; if the tire pressure is not uniform, it will easily cause the brakes to deviate, thereby increasing the wear of the suspension system.

5. Setting instructions

1、Display key description

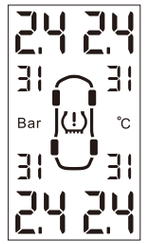


2、Key operation mode description

1、Short press, press the button and release immediately is a short press。

2、Long press, press for three seconds and then release it is a long press。

3、Display status



normal status

Display direction ↑
Low pressure =1.8
high pressure =3.2
high temperature=70
Right front =000000
Front left =000000
right back =000000
Back left =000000
Display tire temperature

Set status

Alarm status

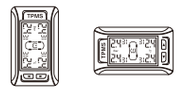
4、Parameter setting instructions

Long press the setting button for 3 seconds to enter the setting status interface。

Press the set button to select the parameter setting, and press the select button to adjust the parameter or match the tire pressure.

1、Display direction ↑ ← ↓ →

The default display is ↑,
If changed to →, As shown



2、Low pressure setting：range1.5~2.4　Default state1.8　unit Bar

3、High pressure setting：range2.5~3.5　Default state3.2　unit Bar

4、High temperature setting：range50~80　Default state70　unit ℃

5、Right front wheel matching　　6、Left front wheel matching

7、Right rear wheel matching　　8、Left rear wheel matching

Method: Press the select key to enter the matching state of changing the tires. This parameter flashes, and the corresponding tires are quickly deflated within 120 seconds. The host emits a "Bi-Bi-Bi" sound, and the corresponding parameter "000000" becomes the valve number. The match is successful.

Note: If the four wheels are selected at the same time, enter the state of matching the tire pressure at the same time, that is, the factory-specific matching. The user continues to press the selection key to enter the next parameter setting.

9、Display tire temperature or not display tire temperature

Long press the setting button for 3 seconds to exit the setting status interface。

10、Under normal working conditions, long press the selection key to set the display brightness, there are three brightness Can be set, respectively: high, medium and low. Each long press will automatically switch the screen brightness.

5、Turn off the alarm sound operation

When tire low pressure, high pressure, high temperature, slow air leak and fast air leak are detected, it will automatically alarm. The abnormal tire data and tire pressure symbol will flash, and a "Bi-Bi-Bi" sound will sound. Short press any key to turn off The alarm sounds, but the symbol will still flash until the problem is solved.

6. Problem solving

1、The learning cannot be completed automatically. Please quickly deflate the corresponding tires within 120 seconds and re-learn. Otherwise, the sensor battery may be dead or broken. When the battery is in a low voltage state, the battery bar will be displayed on the display.

2、The button does not respond. Please press the button hard to see if there is a feeling of releasing it after pressing it. If not, it may be that the shell deformation is caused by too much force during installation and the button gap is affected.

3、If there is no normal status display, please confirm whether the applicable model of the equipment is correct and the connection is normal.

Technical Parameters

monitor

working frequency ····· 433.92±0.05MHz
Operating Voltage ····· 9-12VDC
Working current ····· ⩽50mA
working environment ····· temperature-20℃~+70℃

Built-in sensor

working frequency ····· 433.92±0.015MHz
Operating Voltage ····· 2.0~3.6V
Working current ····· Static⩽0.5uA
Instant launch⩽8mA
working environment ····· temperature -40℃~+100℃
Monitoring range ····· Air pressure 0~3.5Bar
Precision ····· Air pressure ±0.1Bar

External sensor

working frequency ····· 433.92±0.015MHz
Operating Voltage ····· 2.3~3.6V
Working current ····· Static ⩽1uA
Instant launch ⩽12mA
working environment ····· temperature -20℃~+60℃
Monitoring range ····· Air pressure 0~6.00Bar
Precision ····· Air pressure ±0.1Bar
Torque ····· 4N.m

Troubleshoot

No tire signal is displayed after installation?

- Automatically update data when the driving speed exceeds 20Km/Hr;
- The display and sensor do not match, re-pair.

A tire does not display tire signals

- Whether the position sensor matches the display, it is recommended to re-pair;
- Whether the position sensor has been damaged.

External sensors are easy to be stolen? Will be thrown away while driving?

- The sensor adopts a fastening and anti-disassembly design, and it can be disassembled with special tools.

Do you need to balance the external sensor after installation?

- The sensor is about 9.3 grams, and is basically negligible on the inner diameter of the wheel housing.