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.

FCC NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER' S AUTHORITY TO OPERATE THE EQUIPMENT.

NANNAR TPMS USERS MANUAL

www.nannar.cn

Notice

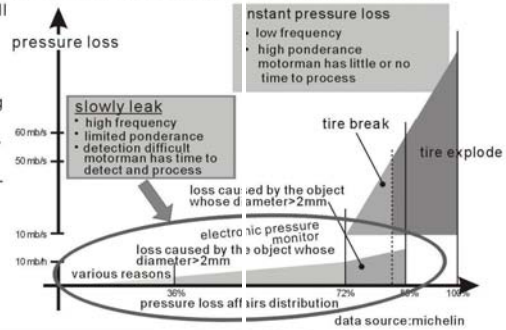
- This product is only suitable for the minitype motorcar which uses the meridian tires and the tire pressure does not exceed 3.5 Bar (≈3.5kgf/cm²).
- Please do read this manual carefully before using the product, make sure that you caninstall it correctly.
- The final right to interpret the product is reserved by Dong Guan Nannar Electronics Technology Co., Ltd.
- The product can monitor the tires effectively, but does not warrant avoidance of any sudden accidents, so users choose the better tires and use this product to monitor them are the same important.
- Injecting chemicals (such as leak-proof glue) will damage the sensors.
- The product can monitor the tires automatically, after correct setting, it will alarm with sound and light when the tires' pressure and temperature are not normal, so users have no need to pay attention to it all the time, lest detract attention.

Understanding TPMS

According to the recent research of the American Society of Automotive Engineers, each year about 260 000 traffic accidents are because of the tires' low pressure and leak, besides, every year 75% tire malfunctions are caused by the tires' low pressure and leak. Because of the large economic expense each year, the American government desires the motorcar manufacturers to develop the TPMS system quickly in order to decrease the tire accidents. Therefore, the American Congress passed the TREAD bill in 2002. One of the TREAD bill 's requirements is that all the motocars selled in the USA must install the TPMS system until 2007. The National Highway Traffic Safety Administration of America requires that all the motocars selled in the USA must install the TPMS system until 2007, it also gives the executing schedule for the motorcar manufacturers: cars which install TPMS system must be 10% in 2002, 35% in 2005, 65% in 2006, and 100% in 2007 in the USA.

TPMS is the abbreviation of the "Tire Pressure Monitoring System", mainly be used to automatically monitor the tire pressure when driving, it will alarm when the tires' low pressure or leak happens, it can ensure the driving safety, TPMS is the drivers and passengers' life safety's guarantee presentiment system.

According to the right figure we can see that the TPMS can prevent 90% of the tire accidents.



Nannar TPMS warranty card

No.

This leaf must be filled when purchase, cut along the broken line, sent back to us by the dealer.

User fill in			
User name		Telephone	
Address			
Car number		Car type	
Dealer fill in			
Product type		Number	
Dealer		Telephone	
Address			
Sale date		Dealer seal	
Service personnel			

Nannar TPMS warranty card

No.

User holds this leaf

Product type		Number	
Dealer		Telephone	
Address			
Sale date		Dealer seal	
Install personnel			

Service note

Date	Trouble describe	Service personnel

Nannar TPMS function and operation introduction

ID read: Enter ID read menu, you can reread the sensor code, each sensor of the Nannar TPMS product has the only one code itself, so once you change the sensor, you must enter this function, and reset the corresponding sensors.

Tires Adj	▸Exit
LF	RF
LR	RR
OK	SET

Tires Adj	Exit
▸LF	RF
LR	▸RR
OK	SET

Enter ID read menu, choose the tire you want to read, click " OK ", then the corresponding place will display the previous code for2 seconds,subsequently enter ID waiting state, let the corresponding tire pressure drop morethan 0.2 Bar within 30 seconds, the corresponding sensor will enter quick transmitting state, ID read will be successful (If the receiver receives the same code two timeswithin10 seconds, system will read this code.) . After ID read, press " OK " button to confirm, press " SET " to cancel.

ID read: Enter ID read menu, you can reread the sensor code, each sensor of the Nannar TPMS product has the only one code itself, so once you change the sensor, you must enter this function, and reset the corresponding sensors.

ID Read	▸Exit
LF	RF
LR	RR
OK	SET

ID Read	Exit
▸LF	RF
LR	RR
OK	SET

Nannar TPMS technology parameters

Frequency: 434 MHz
Operating Temperature: -30℃~+100℃
Pressure Range of the Sensor: 0~3.6Bar
Accuracy for Pressure: ±0.1 Bar
Accuracy for Temperature: ±3℃
Life of the Battery: 5 years
RF Output Power: 5 dBm
Sensitivity: -105 dB

Nannar TPMS question & answer

1.The pressure alerts frequently
In normal condition, set the pressure alert value to be75% of the normal pressure value, if set too high and the tire occurs leak, this problem will happen.

2.Some of the sensors does not transmit signal for a long time
When the sensor is broken or because of the RF interference the receiver does not receive the signal normally, this problem will happen, if can not resume in time, please contact the dealers or contact us directly.

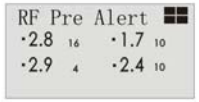
3.Display is not normal
When the car's power is interfered severely, display will not be normal once in a while, you can try to power on again, if this problem occurs frequently, please contact the dealers or contact us directly.

Nannar TPMS warranty items

1.The warranty card must be signed and sealed by the dealers, and then it is effective.
2.The product warranty period is 1 year and subject to the time marked on the invoice.
3.Any damages or faults due to improper use are not involved in the warranty.
4.Users are not allowed to open, repair and refit the product by themselves, otherwise the warranty service is invalid.
5.The warranty does not cover the product damage due to abrasion or corrosion.
6.The warranty does not include replacement of the crust and the OLED panel.

Nannar TPMS alert and processing

Low pressure alert: When the tire pressure is lower than the set value, the system will take place low pressure alert.



Treatment: Should slow down the car immediately and deal with it properly, charge the tire to the standard pressure.

High temperature alert: When the tire temperature exceeds 75℃, the system will take place high temperature alert.

Treatment: Should slow down the car immediately and deal with it properly. (In normal condition, only when continuously braking, badly over loading and driving at high speed for a long time may induce higher tire pressure.)

Quick leaking alert: When the pressure data collected by the sensor drops more than 0.2 Bar within 30 seconds, system will occur quick leaking alert.

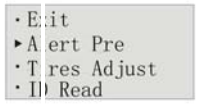
Treatment: Should slow down the car immediately and stop at a safe place for inspection and replacement.

! Notice: Released from the alert status does not mean that the tire condition turns well, users should check the tire quickly and charge it.
Each time has received the alert, system will sound "Di ··· Di···" for 4 times, meanwhile the screen will also give a hint. The alert sound can be cancel for 10 minutes by pressing SET button.

Nannar TPMS function and operation introduction

Power-on interface: Each time after power-on, the screen will display figure 1 interface, after receives the sensor signal, it will display figure 2, the corresponding pane will become solid, the corresponding place will display pressure and temperature, normally all the signals will be received within 2-5 seconds.

Function interface: Under the state of the receiving signal, press "OK" button can enter function menu, press "SET" can choose function, press "OK" can enter choice function.



Alert pressure: Enter alert pressure setting, you can set the low pressure alert value, in normal condition, set it to be 75%of the normal pressure. The product's low pressure alert value is set to1.8 Bar before selling, users can change it according to the car's condition. After enter alert pressure setting interface, the screen will display the value before selling or users' set value; Click the "SET" button, the pressure set value will increase 0.1 each time, if press it for a little long time, the set value will continuously increase with 0.1 Bar each time; Should note that the product's pressure value range is 1.0-3.0 Bar, when increases to 3.0 Bar, system will return1.0Bar automatically and increases from it again; When the pressure value reaches the value you want, please click "OK", after this step, system will return the previous menu.

Tires adjust: Enter tire adjust menu, you can change the tires mutually.
From the top right figure, after press the "OK" button, the left front sensor code will interchange with the right rearward sensor code.

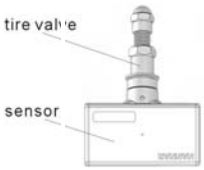
Nannar product introduction

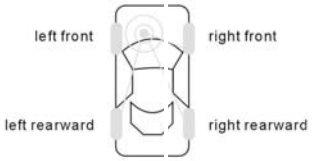
Nannar full-time directly TPMS includes 4 sensors and 1 receiver. The sensors are integrated with the tire valves, and are installed in the tire. Every 3 seconds the sensor will detect the tire pressure and temperature one time, every 60 seconds it will transmit the tire pressure and temperature data in wireless mode to the receiver in the cab, the receiver processes the received data and displays, it compares the data with the setting value andalarms when abnormity happens. So you can get your car's tire condition timely with thissystem, make sure that they are in the best status, and prevent from driving with low tire pressure. In this way, no only protect the tires but also economze oil, and nipping in the bud is the most important.

Nannar TPMS product configuration

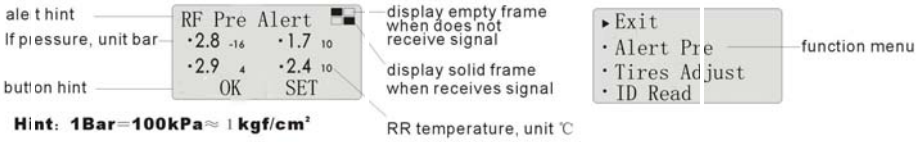
Receiver

Sensor





Nannar TPMS screen display



Hint: 1Bar=100kPa≈1kgf/cm²

Nannar TPMS installation

! Notice: Nannar TPMS must be installed by the professional.

Sensor install

1. Dismount the tires from the car, deflate the gas and remove the rubber tubes.
2. Detach the tire valve, install the corresponding sensor and fix it.
3. Mount the rubber tubes, charge them until the standard pressure, then check the leak condition, and adjust the wheels' balance.
4. Fix the tire to the car.
5. In turn install other sensors according to the above steps.

Hint: In normal condition, you have no need to remove the rubber tube from the hub, just press it down then you can install, detach the sensor and valve well.

Receiver installation

1. Clean the inside rearview mirror, use double-face glue stick the up half part of the receiver to the right side of the back of rearview mirror, see the figure.
2. Put the power line across the top of the inside rearview mirror and pull it, reach the interior decoration, put the power line along the fringe of the interior decoration and reach the inside wiring box which is under the left side of the steering wheel, the positive pole connects to the car's key switch, negative pole connects to the earth.