

# USER MANUAL

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Wireless Tire Pressure Monitoring System

**Important! Turn on The Monitor before Installation**

Hieha



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## **Customer Service:**

We have done our best to deliver a high-quality product and we'll continue doing.

## **Note Before Usage:**

The Tire Pressure Monitoring System has been fully matched before leaving the factory and does not require any complicated operations from you. **You just need to turn on the tire pressure monitor first, and then install the sensors on the tire at the corresponding position.**

Do not hesitate to get in touch with us if you meet any difficulties installing the unit we are always available to answer any of your questions and more than happy to take your suggestions.

## **We try our best to be as responsive as possible, you can always get in touch with us through:**

1. Your order on Amazon, Contact Seller Service. Reply within 24 hours.
2. Email Service: [hieha@hieha.com](mailto:hieha@hieha.com) Reply within 24 hours.
3. Facebook Service. Visit Hieha official website: [www.hieha.net](http://www.hieha.net) Reply within 12 hours except for the weekend.

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## **Product Introduction:**

Thank you for purchasing our Tire Pressure Monitoring System (TPMS). This system is designed to provide you with additional protection when driving. It will warn the condition of the car's tires in advance.

With the TPMS system installed, the pressure and temperature of the tires can be monitored in real time. It will emit a real-time warning sound and a bright flashing icon to inform the driver if any abnormal tire pressure or temperature is detected, which can prevent traffic accidents and ensure the safety of the driver and passengers.

In addition, the installation of TPMS can effectively help to improve vehicle comfort, enhance driving safety, reduce overall wear and fuel consumption and prevent tires puncture.

## **Product Precautions & Functions:**

1. Please pay attention to safety during driving. Do not operate and observe the system frequently.
2. The system uses the sensor transmitter to measure the pressure and temperature in the tire and transmit it by wireless signal. The receiver will express the normal tire pressure and temperature with specific values during normal operation. The sensor transmitter will immediately send an alarm signal to the wireless tire pressure monitoring system when any one or more sensor transmitters in the system detect abnormal tire pressure or tire temperature. The TPMS will immediately send out an alarm corresponding to the abnormal condition of the tire when it receives the signal that the tire is abnormal and will flash the corresponding alarm icon or voice and the tire pressure and temperature value simultaneously to inform the driver. The driver needs to check and repair the tire immediately to avoid accidents caused by abnormal tire pressure or excessive tire temperature.

- 3.Generally, the tire will have natural slight air leakage, and the tire pressure will decrease with time, which is a normal phenomenon and not directly related to the installation of the product.
- 4.Affected by the thermal expansion and contraction of air, the air pressure is sometimes high and sometimes low during driving, which is a normal phenomenon and has no direct connection with the installation of the product.
- 5.The incorrect installation of TPMS system will affect the use of the product or cause product damage. Be sure to hire an experienced tire installation technician to install it. Be careful not to damage the sensor transmitter when you need to disassemble and assemble the tire again. The valve with built-in sensor transmitter is not suitable for repeated disassembly.
- 6.Please use a specially configured power cord, and it cannot be tied around the receiver. Otherwise, the machine will be damaged or the signal reception will be affected, and you cannot enjoy the free warranty.
- 7.80% of DVD equipment, multi-function rear view mirror or other high-power equipment in the market have electromagnetic interference. It is recommended that the receiver be more than 50cm(19inch) away from such products to avoid affecting the stability of received signals. The best position in the car is the upper left corner and upper right corner of the A-pillar front gear and the middle of the two front seats (far away from the central control).
- 8.All information on product performance, specifications and warranty are subject to change without prior notice.

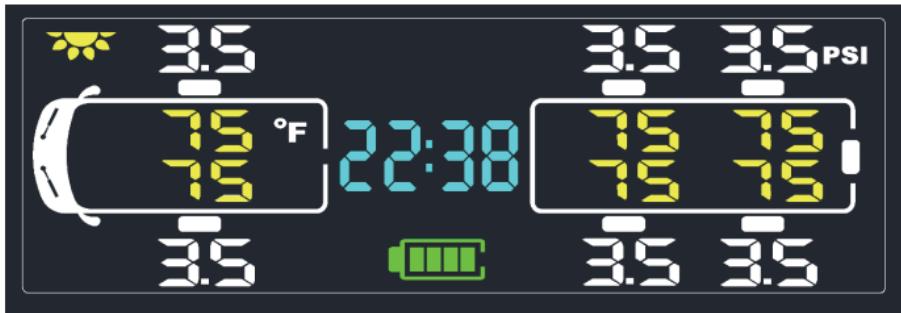
9. The system transmits signals wirelessly. Therefore, under some special environmental conditions, the system may be weakened or fail to receive the signal due to interference factors, wrong operation methods or improper installation methods. Keep the car away from the current position (there may be strong wireless signal interference nearby) if the receiver fails to receive the signal of a tire for 10 minutes or go to the specified tire warranty factory as soon as possible to check whether the sensor in the tire has fault or the battery of the sensor in the tire is exhausted (the battery may need to continuously transmit wireless signals to warn the driver because of frequent abnormal conditions, so that the battery life is shorter than the normal service life).

## **Application Scope of TPMS System:**

The wireless tire pressure monitoring system requires correct installation methods and installation by qualified operators in accordance with the steps in the installation manual, so that the system can operate correctly and provide warranty. If the sensor is damaged due to improper installation or disassembly, it will no longer enjoy the product warranty. The system is applicable to vehicles with 4-6 tires and the maximum tire pressure is lower than 8bar/116psi (gauge pressure).

# Display Interface Introduction:

## Display of The Monitor



## Key Switching Function Description:

 TPY-C Charging Port / Receiver Charging Interface

 Power on/off

 (M) Menu Key / Confirm Key (In standby interface, hold down for 3 seconds to enter the menu mode and select the parameters to be adjusted.)  
The left and right keys serve as the adjustment selection key.

 (–) Left Key / Left Switch Menu (In standby interface, long press to turn on / off)

 (+) Right Key / Right Switch Menu (In standby interface, hold down for 3 seconds to enter sensors matching mode)

## **Abnormal / Alarm Information:**

### **Air Leakage Alarm :**

When the air pressure of any tire is lower than 26PSI(4-wheel vehicle)/58PSI (6-wheel vehicle) in a launch cycle, the buzzer will sound the alarm rapidly, and the corresponding tire icon, pressure data, TPMS icon and air leakage icon will flash continuously. Press any key to stop the buzzer alarm; The alarm is cleared after the leakage stops.

### **Low Pressure Alarm:**

When it detects that the pressure of any tire is lower than 75% of the standard tire pressure, the buzzer will sound an alarm, and the corresponding tire icon, pressure data, TPMS icon and low pressure icon will flash continuously. When the tire pressure is equal to or higher than the alarm threshold, the alarm will be cleared; The default low pressure alarm threshold is 26PSI(4-wheel vehicle) /58PSI(6-wheel vehicle), which is suitable for all cars

(Reference document: National Standard "GB/T2978-2008 Car Tire Specifications, Dimensions, Pressure and Load"). For different models, please refer to the tire pressure standard values on the door post of the car or adjust it after consulting the tire shop or reading the instruction manual.

### **High Pressure Alarm:**

When it is detected that the vehicle is fully loaded and the pressure of any tire is 125% higher than the standard tire pressure value of cold tire, the buzzer will sound, and the corresponding tire icon, pressure data, TPMS icon and high pressure icon will flash continuously. When the tire pressure is lower than the warning threshold value of 0.1 bar, the alarm will be cleared; The default setting of the high pressure alarm threshold is 43PSI(4-wheel vehicle)/97PSI (6-wheel vehicle), which is suitable for all cars.

(Reference document: National Standard "GB/T2978-2008 Car Tire Specification, Dimensions, Pressure and Load"). For different models, please refer to the tire pressure standard values on the door post of the car or adjust it after consulting the tire shop or reading the instruction manual.

## **High Temperature Alarm:**

When it detects that the temperature of any tire is higher than the preset temperature threshold, the buzzer will sound the alarm, and the corresponding tire icon, temperature data, TPMS icon and high temperature icon will flash continuously. When the temperature is lower than the alarm threshold by 1° C, the alarm will be cleared; The default temperature threshold is 70 ° C.

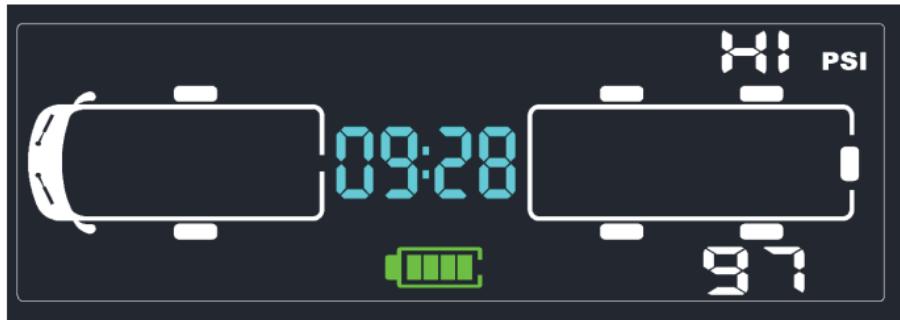
## **Parameters Setting:**

Users can set parameters according to their own vehicle conditions or actual needs. If there is no setting modification, the system defaults to the factory state; Hold down the "Menu Key" for 3 seconds to enter the system setting mode. If no operation is performed on the setting interface within 30 seconds, the system will automatically exit to the main interface mode. Settings without confirmation can not be saved.

# Pressure Unit Setting (Factory Default is PSI):

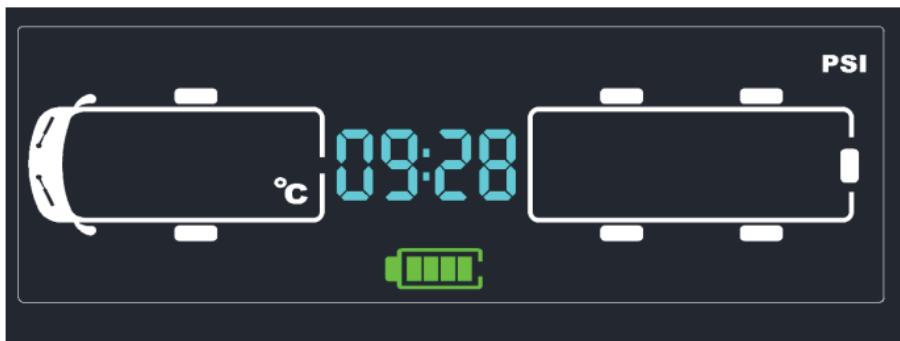
In standby interface, hold down "Menu Key" for 3 seconds to enter system setting mode, which is PSI unit.

(Refer to figure 1)



## Temperature Unit Setting

In standby interface, hold down the "Menu Key" for 3 seconds to enter the system setting mode. Press the "Menu Key" once to enter the temperature unit setting. Select the  $^{\circ}\text{F}$  /  $^{\circ}\text{C}$  unit through the "+" / "-" button. After the temperature unit is selected, press the "Menu Key" to confirm the setting.



## Tire Pressure Alarm Upper and Lower Limit Value Setting:

### Factory Default:

High Pressure: 43PSI(4-wheel vehicle)/ 97PSI(6-wheel vehicle)

Low Pressure: 26PSI(4-wheel vehicle)/ 58PSI(6-wheel vehicle)

High Temperature: 70 ° C

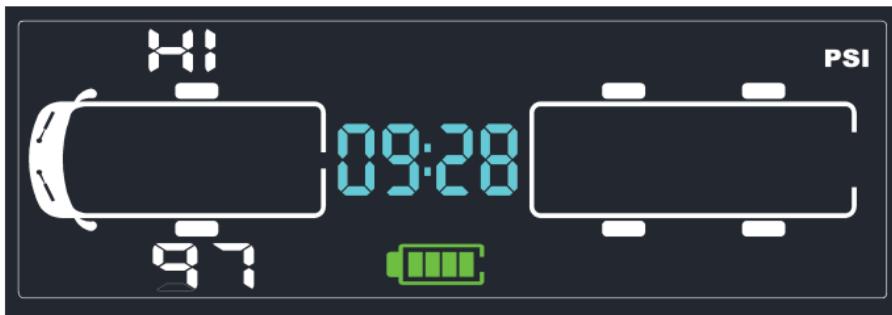
### Low Pressure Alarm Value Setting of Front Wheel:

In standby interface, hold down the "Menu Key" for 3 seconds to enter the system setting mode. Press the "Menu Key" twice to enter low pressure alarm value setting of front wheel. At this time, you can set the lower limit value of low pressure through the "+" / "-" button. After the setting is confirmed, press and hold the "Menu Key" to save and exit.



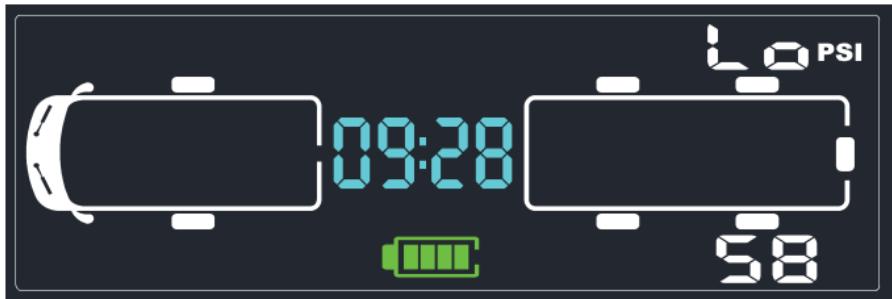
## High Pressure Alarm Value Setting of Front Wheel:

In standby interface, hold down the "Menu Key" for 3 seconds to enter the system setting mode. Press the "Menu Key" 3 times to enter high pressure alarm value setting of front wheel. At this time, you can set the upper limit value of high pressure through the "+" / "-" button. After the setting is confirmed, press and hold the "Menu Key" to save and exit.



## Low Pressure Alarm Value Setting of Rear Wheel:

In standby interface, hold down the "Menu Key" for 3 seconds to enter the system setting mode. Press the "Menu Key" 4 times to enter low pressure alarm value setting of rear wheel. At this time, you can set the lower limit value of low pressure through the "+" / "-" button. After the setting is confirmed, press and hold the "Menu Key" to save and exit.



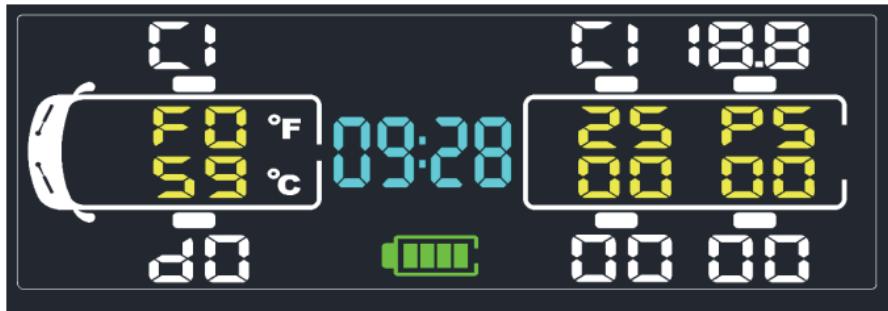
## High Pressure Alarm Value Setting of Rear Wheel:

In standby interface, hold down the "Menu Key" for 3 seconds to enter the system setting mode. Press the "Menu Key" 5 times to enter high pressure alarm value setting of rear wheel. At this time, you can set the upper limit value of high pressure through the "+" / "-" button. After the setting is confirmed, press and hold the "Menu Key" to save and exit.



## Tire Matching Setting (Inflate/Deflate Matching):

In standby interface, hold down the "+" button for 3 seconds to enter the matching setting mode. Press the "+" button to enter the matching mode, as shown below:



At this time, the icon of "0" in the interface flashing, press the "+" button to enter the matching mode.

"1" shows 00 small wheel icon flashing, and then install the sensor #1. If the matching is successful, it will automatically enter the matching of "2".

"2" shows 00 small wheel icon flashing and then install the sensor #2, it will automatically enter the matching of "3".

"3" shows 00 small wheel icon flashing, and then install the sensor #3, it will automatically enter the matching of "4".

"4" shows 00 small wheel icon flashing, and then install the sensor #4, it will automatically enter the matching of "5".

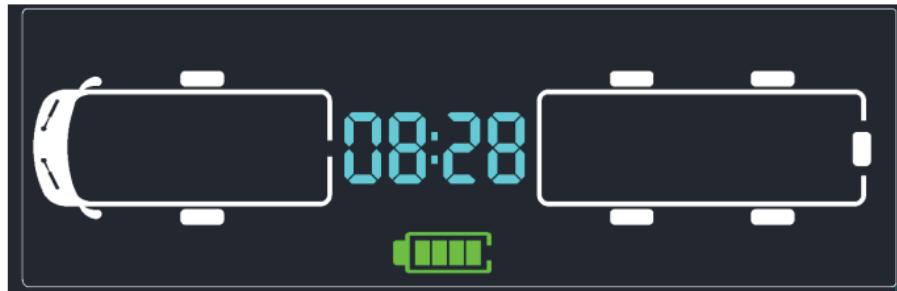
“5” shows 00 small wheel icon flashing, and then install the sensor #5, it will automatically enter the matching of “6”.

“6” shows 00 small wheel icon flashing, and then install the sensor #6. If all tires are matched successfully, the system will automatically return to the main interface and the monitor will display the corresponding tire pressure values.

The matching methods are respectively: “1” -> “2” -> “3” -> “4” > “5” > “6”, and the matching of the tire sensor is completed.

## Time Setting:

In standby interface, hold down the “Menu Key” for 3 seconds to enter the system setting mode. Continue to short press the “Menu Key” for 8 times to enter the time setting interface to display the current time. Short press the “-” button to enter the time setting sub page. Through the “Menu Key”, you can select the sub items of “hour value”> “minute ten digit value” > “minute one digit value”. After selecting the sub item to be set, short press the “+” / “-” button to adjust the specific value.



## Tire Corresponding Position:

### 4-Wheel Tire Position



### 6-Wheel Tire Position



## Basic Parameters:

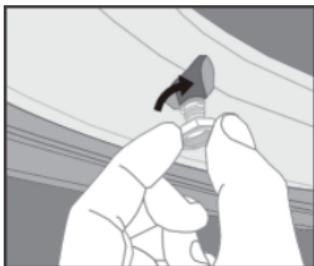
### Monitor's Parameters

Working temperature	- 20 °C ~ 80 °C
Storage temperature	- 30 °C ~ 85 °C
Power voltage	DC 5V
Frequency	433.92mhz ± 20.00mhz

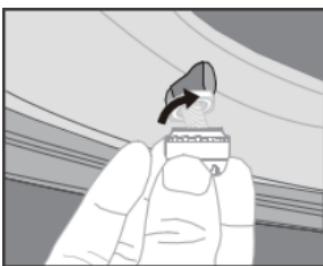
### Sensor's Parameters

Working temperature	- 40 °C ~ 75 °C
Storage temperature	- 30 °C ~ 85 °C
Pressure range	0 ~ 8bar/0~116psi
Pressure accuracy	+ / - 0.1bar/1psi
Temperature accuracy	+ / - 3 °C
Transmitting power	< 10dB
Frequency	433.92mhz ± 20.00mhz

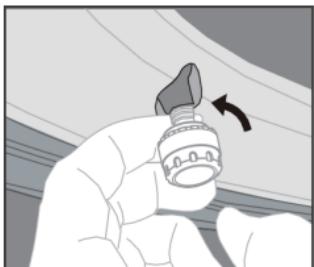
## External Sensor Installation Method:



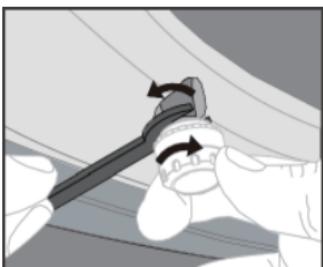
1. Screw nuts into the value.



2. Tighten the sensor.



3. Tighten the nut to hold on sensor with anticlockwise.



4. Use spanner to fix nut with anticlockwise.

## Battery Replacement Instructions:

1. Before removing the sensor, please prepare the nut wrench, rotate the nut clockwise to separate the nut and the sensor, and then remove the sensor counterclockwise;
2. Remove the anti fixing ring and unscrew the upper cover housing of the sensor counterclockwise with a wrench;
3. Take out the old battery from the battery clip and do a good job in environmental protection classification;
4. Distinguish the positive and negative electrode positions (the positive "+" is upward); Install a new lithium battery CR1632;

FCC warning:

1. This device should be installed and operated with minimum distance 20cm between the radiator&your body.
2. 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.
3. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
4. 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.