5-4. Parameters of Wired Signal Repeater

Wired signal repeater parameters:	
Working voltage:	12V~33V
Working current:	≤16mA
Power supply:	Car Power
Operating frequency:	433.92MHz
Operating temperature range:	—35℃—+80℃
Waterproof grade:	IP8
FR signal transmission power:	≤11dB
weight:	120g

5-5. Wireless signal repeater parameters

Wireless signal repeater parameters:	
Working voltage:	3.3V
Working current:	≤16mA
Sleep current:	≤0.1mA
Power supply:	Internal battery
Operating frequency:	433.92MHz
Operating temperature range:	—35℃—+80℃
Waterproof grade:	IP8
FR signal transmission power:	≤11dB
weight:	520g

7. Warm reminder

1. Please use this product correctly and within its permitted scope.

2. The installation process should be carried out strictly in accordance with the contents of this manual. Be sure to ask an experienced tire installation technician to perform the disassembly and installation. If any adverse problems are caused by improper installation, our company will not be responsible.

3. When you need to disassemble or install the tire again, please avoid the tire pressure sensor to avoid damage.

4. When setting the alarm value, strictly abide by the alarm value range. Different models should be set according to the parameters of their tires or the range given in the instructions or dealers. Once the system parameters are set, there is no need to modify them.

5. Please check the battery level to make sure it has power.

6. Before traveling, please first check the condition of your car, observe the air pressure of each tire, brakes, dashboard, etc., and develop good habits of safe travel, so that you can travel more safely!

User Manual

1. Working principle of tire pressure monitoring system

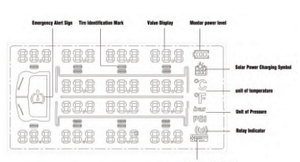
1-1. Tire Pressure Monitoring System (TPMS) is abbreviated as TPMS. Its working principle is to monitor the internal pressure and temperature of the tire through the sensor installed on the tire, and use wireless radio frequency technology to transmit the collected data information to the receiver installed in the cab. TPMS can monitor the tire pressure and temperature information of the car in real time, and alarm for abnormal conditions such as low pressure, high pressure, air leakage, high temperature, etc. of the tire, reminding the owner to take corresponding effective measures, thereby playing a role of safety assistance.

1-2. Economic benefits of tire pressure monitoring system

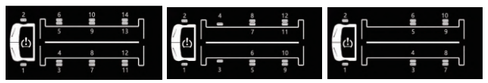
The tire pressure monitoring system not only plays a role in safety assistance, but also has great economic benefits. The tire pressure monitoring system can display the air pressure and temperature status of each tire in real time and accurately in front of the car owner. The car owner can compare the air pressure error of each tire of the vehicle in real time, inflate or deflate the tire in time, and keep the tire pressure uniform in real time to avoid accelerated tire wear caused by uneven tire pressure. It can significantly reduce the frequency of tire replacement, so that the tire pressure monitoring system has an objective economic benefit. (In addition to considering the reliability of the product's performance, the usability of the product should also be considered when choosing a tire pressure monitoring system. Please try to choose a product with more intuitive data. The data of each tire can be displayed at the same time, so that the tire data can be compared more intuitively and processed in time, thereby reducing the tire wear rate and significantly improving economic benefits.)

2、Product Introduction

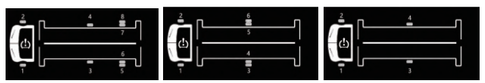
2-1. Display page and functions



2-2、Tire serial number corresponding to vehicle model installation example



14 wheels 12 wheels 10 wheels



8 wheels 6 wheels 4 wheels

2-3. Button Function

	Switch on and off button(press and hold for 3 seconds) In settings, it is "-"
M	Set key (long press for 3 seconds) "Confirm" in settings
	In settings it is "+"

(1) . Left button (on/off button)

①. In the shutdown state, press and hold the left button for 3 seconds to start the system;

②. In the boot state, press and hold the left button for 3 seconds to shut down.

②. In the settings, it is "select" and "reduce".

(2) . M Key

When the receiving host is working normally, press and hold the M button to enter the "Menu and Settings", and the "Confirm" button is also used in the settings.

(3) Right button

Under the normal working state of the receiving host, in the settings for "select" and "increase".

2-4. External sensor

2-5. Built-in sensor

2-6. Wired repeater

2-7. Wireless Repeater

3. Installation steps

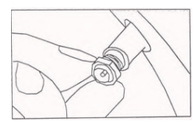
3-1. Receiving host installation

①. Take out the receiving host and adhesive, and use the adhesive to fix the host bracket to the appropriate position of the center console.

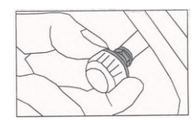
②When using this product for the first time, first check whether there is power. If there is no power or it does not turn on, please take out the USB cable and connect it to the USB port in the car to charge. The host is charged with solar energy. When the power of the host is too low, the USB port needs to be used to replenish the power.

3-2. External sensor installation

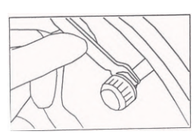
(1) (as shown in the figure below)



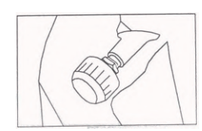
①Screw the anti-theft nut into the valve stem



②Install the sensor onto the valve stem and tighten it



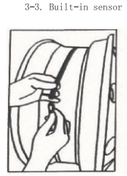
③ Use a metal wrench to tighten the anti-theft nut in reverse



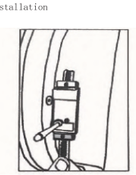
④ After installation, check for leaks

(2) Please repeat the above steps to complete the installation of the entire set of sensors.

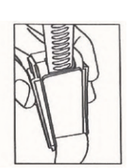
3-3. Built-in sensor installation



①Wrap the cable tie around the wheel hub

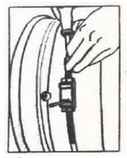


②Put the sensor through the cable tie

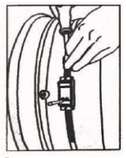


③Slightly tighten the screws to secure the cable tie

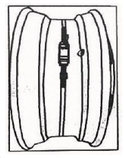
底面 成品105*140mm 8P说明书 装订1000本 封面



④Install the anti-slip rubber pad



⑤Tighten the tie screws



⑥Installation completed

3-4. Installation of wired repeater.

①. Take out the repeater and open the wiring harness.

②. Fix the repeater in the middle of the frame near the rear tire.

③. Get power. Find a convenient location for power supply (rear taillight, battery or power box) and connect the red wire (positive pole) and black wire (negative pole) of the repeater to the power supply (power supply voltage 12V~30V).

④. After power on, check whether the indicator light of the repeater is flashing (please install the sensor first and then install the repeater). If the indicator light is flashing, it means that the repeater is working normally, otherwise please check the circuit.

3-5. Wireless repeater installation

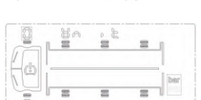
①. Fix the repeater near the middle of the rear tire frame and check whether the green indicator light is on. If the green indicator light is on, it means it is working properly.

②. The wireless repeater is powered by an internal No. 1 battery with a battery life of 12-24 months. Please check regularly and replace the battery.

4. Host function settings

4-1. Pressure unit setting

When the host is turned on normally, long press the M key to enter the menu, and the menu bar will display the '0' page. Press the M key, and the pressure unit will flash. Use the / keys to find the required pressure unit (bar/PSI), press the M key to confirm, and long press the M key to return to the main page.

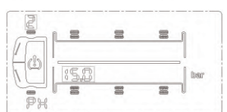


4-2. Temperature unit setting

When the host is turned on normally, long press the M key to enter the menu, press the key once, and the menu bar will display page '1'. Press the M key to confirm, and the temperature unit will flash. Use the / keys to find the required temperature unit (℃/F), press the M key to confirm, and the temperature unit will no longer flash. Long press the M key to return to the main page.

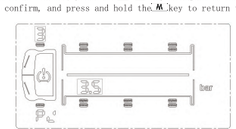
4-3. High pressure alarm value setting

When the host is turned on normally, long press M to enter the menu, press twice, and the menu page displays page '2'. Press M to confirm, and the high-voltage alarm value flashes. Press / to adjust to the required high-voltage alarm value, press M to confirm, and long press M to return to the main page.



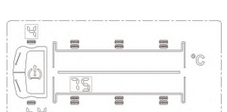
4-4. Low pressure alarm value setting

When the host is turned on normally, press and hold the M key to enter the menu, press key 3 times, the menu displays the '3' page, press the M key to confirm, the low pressure alarm value flashes, press the / key to adjust to the required value, press the M key to confirm, and press and hold the M key to return to the main page.



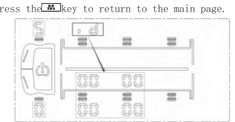
4-5. Temperature alarm value setting

When the host is turned on normally, long press the M key to enter the menu, press key 4 times, and the menu will display page '4'. Press the M key to confirm, and the temperature alarm value will flash. Press the / key to adjust to the required temperature alarm value, press the M key to confirm, and long press the M key to return to the main page.



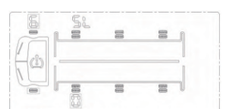
4-6. Pairing the host and sensor

When the host is turned on normally, long press the M key to enter the menu, press the key 5 times in succession to adjust the menu bar to page 5, and press the key to confirm. At this time, the "0" in the lower left corner flashes. Press the left key to select the sensor number to be paired (reference: tire serial number corresponds to the installation tire legend), and press the M key to confirm. At this time, the data of the 4 positions on the screen flash. At this time, install or remove the sensor (the built-in sensor can be inflated or deflated). When the ID data changes and stops flashing, the pairing is successful. Long press the M key to return to the main page.



4-7. Select the tire number to display

This product supports 2-wheel to 14-wheel vehicles. Users can select the corresponding display according to the number of tires of their own vehicle models. Long press the middle M key, press the key 6 times in succession, adjust the menu bar to page 6, press the M key once, and the tire and number will flash. Press the / key to select the tire to be deleted or displayed, and press the M key to delete or display the wheel (press the M key again to restore the display of the wheel). Long press the M key to return.



4-7. Restore factory settings

When the host is turned on normally, long press the M key to enter the air pressure setting interface, then press the key 7 times in succession to adjust the menu bar to page 7, and press the M key twice in succession. At this time, the host returns to the factory settings, and the host interface displays "00". When driving the vehicle, the display will automatically relearn the sensor ID data and automatically display the tire pressure and temperature data. (This function is suitable for batch replacement of sensors or troubleshooting of sensor data failures)

5、Product Parameters

5-1. Display parameters

Display parameters:	
Installation method:	Place it on the center console or on the front windshield
Operating frequency:	433.92MHz
Working voltage:	3 V
Power supply mode:	USB+Solar
Sleep current:	≤6mA
Product weight:	338g
Long term storage temperature:	-30℃—+85℃
Working current:	≤10mA
Work Environment:	-30℃—+80℃
Display accuracy:	0.1bar
Screen:	VA
Housing Material:	ABS+PC
Internal battery:	Polymer battery 1500mAh

5-2. External sensor parameters

External sensor parameters:	
Working battery:	CR2032 (240mAh)
Waterproof grade:	IP7
Operating temperature range:	—35℃—+80℃
Pressure measuring range:	0~8 Bar
Transmitting frequency:	433.92MHz
Transmit power:	≤+30dB
Pressure display accuracy:	±0.1bar
Temperature measurement accuracy	±3℃
weight:	50g
Battery life:	More than 1 year (replaceable)

5-3. Built-in sensor parameters

Built-in sensor parameters:	
Working battery:	CR2450 (540mAh)
Waterproof grade:	IP7
Operating temperature range:	—35℃—+80℃
Pressure measuring range:	0~8 Bar
Transmitting frequency:	433.92MHz
Transmit power:	≤+30dB
Pressure display accuracy:	±0.1bar
Temperature measurement accuracy:	±3℃
weight:	70g
Battery life:	3 years or more

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

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.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Radiation Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.