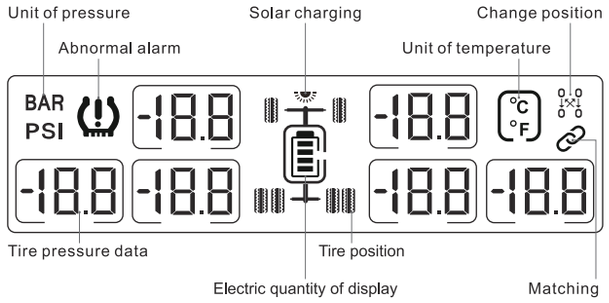
User Manual

Wireless Tyre pressure monitoring system

Ⅰ.Quick explanation



-18.8	Tire pressure		Electric quantity of display
	Abnormal alarm	°F °C	Unit of temperature
	Matching	BAR PSI	Unit of pressure
	Change position	ON	Turn on
	Solar charging	OFF	Turn off
	Press the "-" button of the standby interface to adjust the brightness.		

Caution: Turn on the power of the display and then install the sensor. Follow this step, and the data can be displayed at real time.

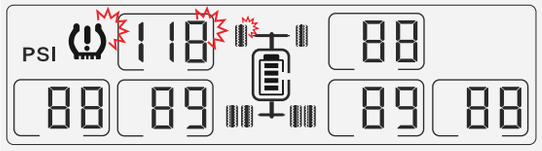
Ⅱ.Functional description of the display

（High temperature alarm/Low power alarm□Interface switch to pressure after alarming 8s and switch to temperature/low power alarm interface automatically after 8s.Rrpeat the switching until fault removed）

For example,the alarm value setting by the user are as follows:
High pressure alarm value:116PSI
Low pressure alarm value:58PSI
High temperature alarm value:65 C

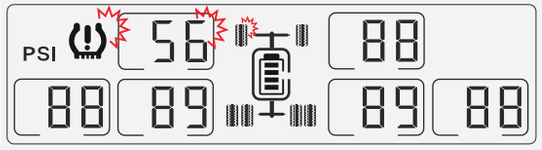
High-pressure alarm Bi--Bi--Bi--

Tire pressure is over 116PSI



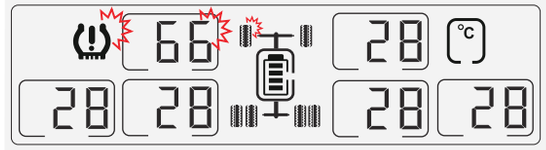
Low-pressure alarm Bi--Bi--Bi--

Tire pressure is lower than 58PSI



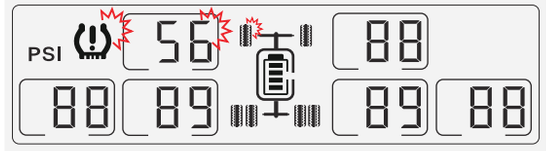
Tire-temperature alarm Bi--Bi--Bi--

Tire temperature is over 65°C



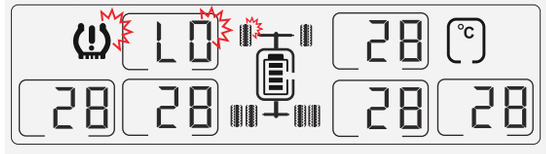
Air-leaking alarm Slow leakBi--Bi--Bi--
Fast leakingBi-Bi-Bi-Bi--

Air-leaking prompt of tire



Low-power alarm Bi--Bi--Bi--Bi--Bi----

Low-power prompt of sensor



After the display alarms, press anywhere on the display to remove the prompt sound, and the flickering prompt will continue till the fault is removed

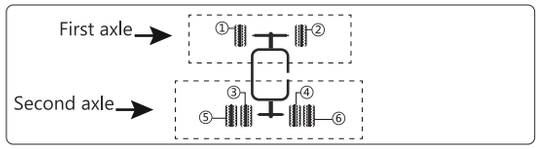
Ⅲ.Parameter setting

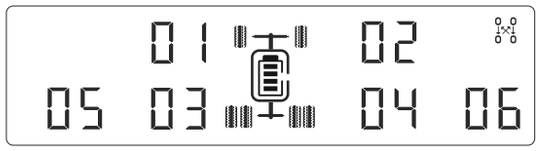
(The parameters have been set before delivery, and the operations below are not needed)

Pressure Unit	BAR/PSI
High Pressure	8.0/12.1BAR(116PSI)
Low Pressure	4.0/6.9BAR(58PSI)
Temperature Unit	°C/°F
Temperature alarm value	65°C/149°F

Detail of display

The tires in monitor interface are divided into two axles as follows:
The tire numbers(01.02,03,04,05,06)
represent the tire position where the sensor is located.

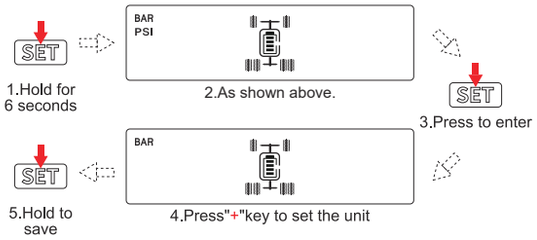




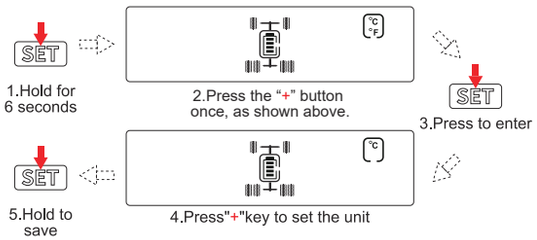
Tire Locations

Setting of unit of pressure

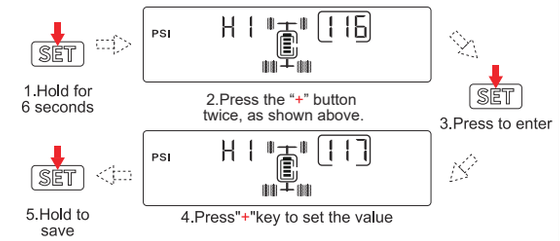
Caution:①Maximum pressure can be set to199PSI(13.7 BAR)
②Maximum alarm value can be set to199 PSI(13.7 BAR)



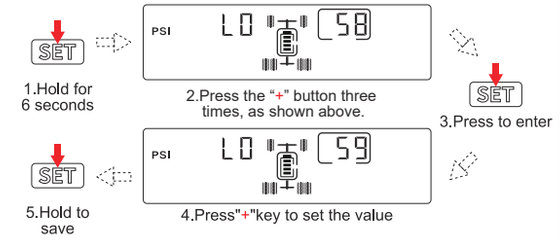
Setting of unit of temperature



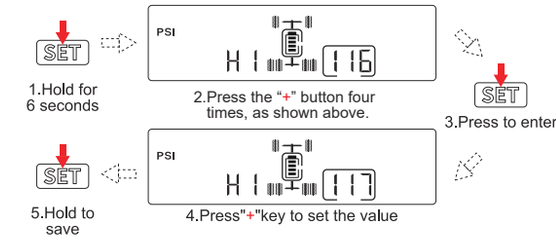
Setting of upper alarm value of First axle tire pressure



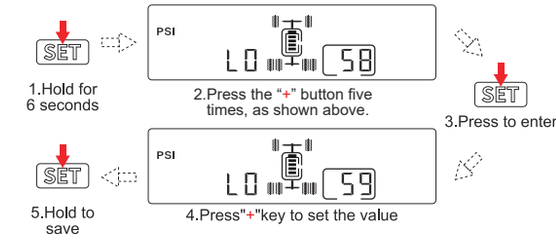
Setting of lower alarm value of First axle tire pressure



Setting of upper alarm value of Second axle tire pressure

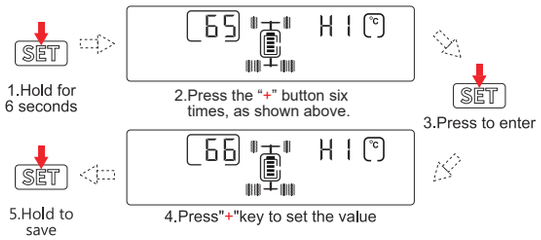


Setting of lower alarm value of Second axle tire pressure

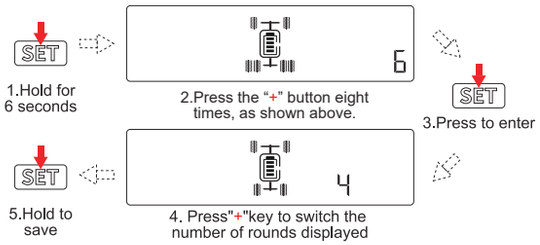


III.Parameter setting

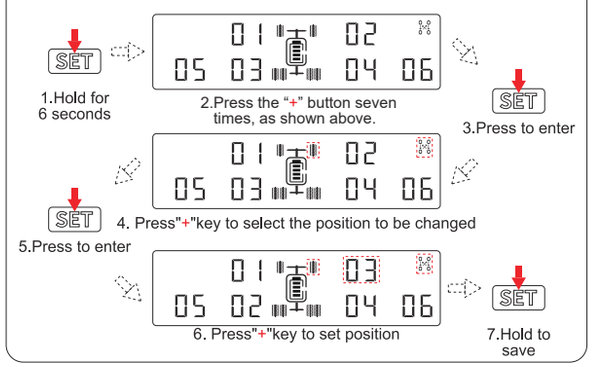
Setting of upper alarm value of tire temperature



4 or 6 tires option

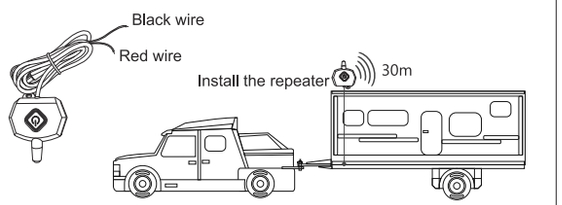


Interchange tire setting



Repeater installation

Repeater:Optional,strengthen the signal
(We suggest to install the repeater to near by the head of vehicle.)

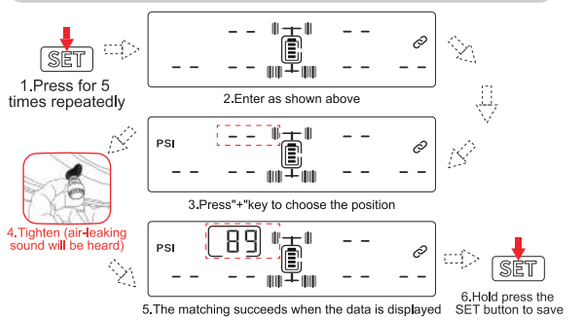


Repeater can make sure to strengthen the signal within 30m.Red cable connects with the anode of the battery,and the black cable connects with the cathode.The button on repeater flash with red light means it is working normally.Otherwise, you need to confirm whether the repeater is properly connected.Or it may be broken if still not flash.

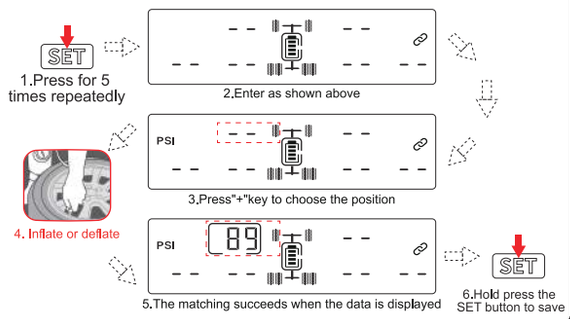
IV.Matching operations

Note: The operations have been matched before delivery, and they are only needed when the data is missing, or when the sensor or the display needs to be replaced.

Matching of outer sensor

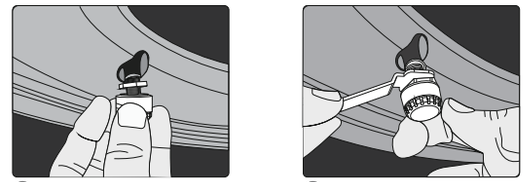


Matching of internal sensor



V.Installation of sensor

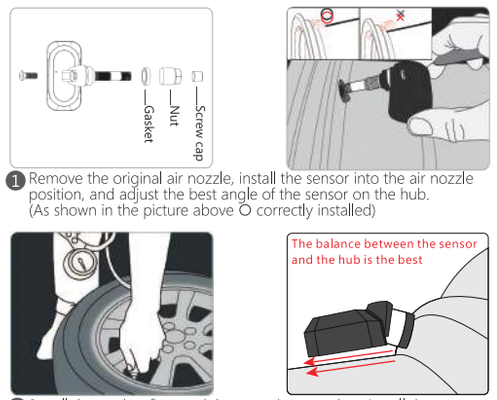
Installation of outer sensor



1 First tighten the anti-burglary gasket and thentighten the sensor

2 Hold the anti-burglary gasket with a spannerand tighten it counter-clockwise

Installation of inner sensor



1 Remove the original air nozzle, install the sensor into the air nozzle position, and adjust the best angle of the sensor on the hub.
(As shown in the picture above O correctly installed)

2 Install the washer first, and then use the wrench to install the nut. After pumping up, close the nut and install it.

VI.Parameters of sensor

Specification of sensor/emitter
Working humidity: 100%
Weight: Inner sensor: 55g (NF+) (37g of air nozzle not included)
Outer sensor: 9.5g (WF)/6g (WI)
Dimension of inner sensor: 69mm*86mm*14.5mm (NF+) (L*W*H)
Dimension of outer sensor: 23mm*15mm (WF) (DIA*H)
18mm*13mm (WI) (DIA*H)
Standby current: 1uA
Standard: CTB160109001Q test report is issued by the test agency with legal qualifications
Test scope of pressure: 0 ~ 13.7bar (0 ~ 199 psi)
Test scope of temperature: -40℃-+125℃
Transmitting frequency: FSK433.92MHz

Notes for attention and statement

- This product applies only to the models of cars with air pressure of tire within 199PSI.
- The safety of Car tires cannot be wholly dependent on this product. The tires shall be checked on a regular basis, and the tiresshall be ensured to be free from damages such as pricked hole,cutting and swelling.
- When the product gives out an alarm, the driver shall stop the car for checking and handling.
- The product cannot forecast any sudden damage of the tires as a result of external force.
- Do not operate the product in driving.
- The shelf life of the battery of the sensor is related to the driving mileage of the Car.
- Do not charge the monitor for a long time (to avoid shortening the battery life of the monitor).
- Please don't use the liquid tire repair agent,or it may block the sensor detection hole.

VII.Notes for use

Please read the following carefully before installing the product:

1. The display shall be installed at the place where driving view is not blocked.
2. The display shall be ensured to be reinforced so that it will not fall off in the course of driving.
3. After the sensor is installed, confirm if the air nozzle is air leaking, and apply some soap water at the air nozzle when necessary and check if any air leaking exists.
4. When the air pressure is too high, take care and prevent the tire from bursting in driving, and when the air pressure is too low, take care of oil consumption and balance.
5. The product can monitor the tires at real time effectively, but it cannot guarantee any sudden occurrence of safety accident of tires. Therefore, choosing tires of good quality is of equal importance with ensuring normal air pressure of tires.
6. When the vehicle is in driving, if the signal is interfered, the signal of the display may be missing, and the use of the product may be affected. In this case, it shall be matched again.
7. If the display is not touched or vibrated within 3-5 minutes, it will hibernate automatically, and a slight vibration may trigger automatic power-on test of the data transmitted by the sensor.
8. The connection between the display and the sensor is wireless. Several anti-interference functions have been designed and the possibility of its being interfered is extremely low.
9. In the course of driving, due to thermal expansion and contraction, air pressure of tires may be changed towards slightly low or slightly high, and it's normal.
10. Generally, natural air leaking of the tires may occur due to natural ageing of rubber product, and it's normal and has not direct relationship with installation of the product.
11. It's prohibited to dismantle, modify or change the product by yourself, and it's the responsibility of your own in case of your doing so which results in failure of normal work of the product.
12. The original air nozzle of the vehicle being rubber one, it's recommended be changed into an aluminum alloy one (for when the sensor is mounted onto the rubber air nozzle, the air nozzle may fly out due to the impact of centrifugal force at high-speed rotation).
13. The specification and technical parameters may be inconsistent with those in the user manual, for they may be changed from time to time due to upgrade or update. They are subject to the actual product without prior notice, and the manufacturer reserves the right to interpret them.

VIII.Trouble-shooting

1 The display cannot be displayed normally

- A Confirm if the display is short of power or not (charge directly if so)
- B Confirm if the display cannot display tire pressure value (1. The sensor is short of power, 2. The signal is interfered, then match again)
- C Confirm if the display is short of codes (low-temperature cooling)
- D If the display is halted and displays in full screen (contact and return to the manufacturer or stay for 24 hours till it is recovered automatically)
- E If the above methods cannot solve this problem yet, contact the local distributor.

2 The sensor cannot work normally

- A Confirm if the sensor is short of power (replace the battery in time)
  In case of an outer sensor, replace with a CR1225 button cell in time
  In case of a common outer sensor, replace with a CR1632 button cell in time
  In case of an inner sensor, contact the distributor and return it to the manufacturer.
- B Confirm if the sensor is damaged due to external force (purchase another one and replace it)
- C Confirm that the normal work of the sensor and the vehicle is not affected in driving after the sensor is installed (potential risk! Too close distance between the air nozzle and the clip may result in the damage)
- D The sensor cannot be installed normally in case of a special vehicle during installation (contact the technical personnel of the manufacturer and seek for the solution).
- E If the problem cannot be solved with the above methods, contact the local distributor.

3 When the icon of "short of power" appears on the display screen, and it continues being used, the display may be malfunctioned. At this time, charge the display to return it to normal.

4 The colors of the display screen are changed

Confirm if the temperature inside the vehicle is too high (over 65℃).
When the temperature returns to normal, it will be recovered to normal display.

5 Update speed of the display screen becomes slower

Confirm if the temperature inside the vehicle is too low (below -20℃).
When the temperature returns to normal, it will be recovered to normal display.

6 After the display is started again, there's no data display of tires

Only when the sensor detects that the tire has a pressure change of over 1PSI, it will send new pressure and temperature value to the display, so there's no data display of the tire. The data will be displayed only after the vehicle is started.

7 How to restore factory settings?

Press and hold SET when the screen is fully displayed, and releasethe SET button after Bi.... sounds.

Tip:Factory default setting changed after restoring: the pressure unit is same as factory setting, the temperature unit turn to °C,and the pressure upper and lower limit alarm values become 58 to 116 PSI & 4 to 8BAR