

TPMS User Manual Ver1.01

Tyre pressure monitoring system

Document History Review

Date	Version	remark	author
2017-08-11	1.01	Update the new style of screenshot	Justin
2017-08-10	1.00	Document release	Justin

1. TPMS Main Feature

1.1 Product Overview

Thanks for choosing our TPMS products. The system is used to monitor the pressure and temperature data of each tire. After the alert parameter is set up by the user, the system will alarm in case of abnormal pressure and temperature to make the driver beware of safety driving. The system has the effort to save fuel, prolong tire life and to make the driving more comfortable.

Be sure to read the user guide carefully before installation and keep the manual for future use.

1.2 Cautions

It is highly recommended to read the instructions below before install the system:

1. The monitor should be installed inside the vehicle where it does not affect normal driving.
2. The monitor should be well fixed to avoid falling off during driving.
3. The tires' temperature and pressure will increase while driving. The vehicle should be stopped if there is high temperature or high pressure alert in case of break problem or flat tire.
4. Driver should stop the vehicle and get off to check the tire if there is fast leakage or the pressure goes up quickly in the tire.
5. Beware of flat tire when there is high pressure, and take care of fuel consumption and balance while low pressure.
6. The system can effectively monitor tire pressure and temperature but can't prevent traffic accident. Regular tire inspection and maintenance is still necessary.
7. Beware of driving safety while checking tire data on the way of driving.
8. After the system is installed correctly, the driver does not need to stare at the monitor all the time while driving.

1.3 Installation Caution

1. The monitor will be in sleeping mode to save battery life if the motion sensor detects the vehicle has stopped for a while. It will turn on again when it detects the vehicle is moving again. If one of the sensor data has not been display on the monitor at the beginning, the data will be displayed later when there is pressure or temperature changes.
2. The signal transmission from the monitor and sensors is wireless, and the transmission distance is long enough for a passenger car.
3. Due to the air expansion and contraction, the tire pressure and temperature will change while driving.
4. There is normal tire leakage in every tire, TPMS will have no effect with the tire pressure if the pressure data drops after long time driving.
5. Should you have any question or problem while installation, please contact with your local distributor.

2. Product Features

- ♦ solar power monitor
- ♦ Pressure and temperature alert
- ♦ Visible and audible alerts
- ♦ Selectable pressure unit (PSI, BAR)
- ♦ Selectable temperature unit (C, F)
- ♦ Configurable high/low pressure alert setting
- ♦ Configurable high temperature alert setting
- ♦ Easy sensor coding after tire exchange
- ♦ Motion sensor included in the monitor

- ♦ automatically backlight
- ♦ Rechargeable lithium battery
- ♦ Monitors up to 5 tires
- ♦ Fast leakage alert
- ♦ Display four tire's temperature or pressure simultaneously

3. Installation

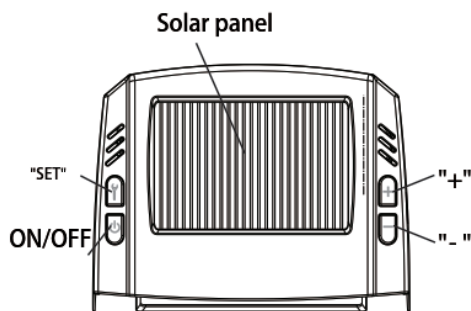
Install the monitor on the vehicle dashboard with the dash pad or the magic tap, Charge the monitor for at least two and half an hour for the first time by the power adapter provided or by the sunlight directly.



4. Pack list



LCD monitor and setting button



ICON	Description
	Tire indicator
	Sensor in low battery
	Battery volume indicator
	Malfunction
	Solar charging

5. Parameter Setting

In standby mode, press the "SET" button, release after the 1st beep to enter the 1st set up step. The corresponding icon on the LCD will flash. Press the "SET" button to select the desired setting, press button "+", "-" to set the data. After the setting is finished, press the "SET" button to save the code and exit after a beep.

Press the button "+", "-" at the same time to exit without saving the setting.

The monitor will return to standby mode if there is no operation within 1min in the setting mode.

5.1 Factory Setting

Pressut unit:	PSI
High pressure warning value:	3.0BAR (44PSI)
Low pressure warning value:	2.0BAR (29PSI)
Temperature unit:	°C
High temperature warning value:	70 °C

~ Restore factory setting

To restore the factory default setting, turn on the monitor and press the button "Set" within 3 seconds, release after a beep. The monitor red backlight will flash. The factory default setting will be restored without changing the sensors' ID information.

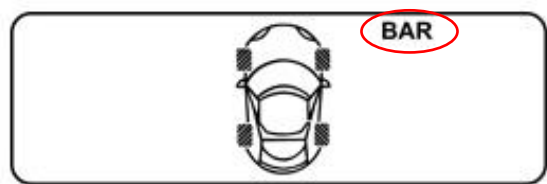
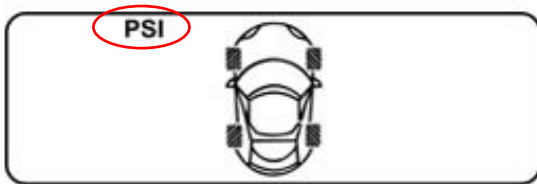
~ On/off monitor

Hold Power button, until there a beep sound to turn on/off the monitor, only in case you don't need to monitor the tire anymore

5.2 Setting Sequence

1) Pressure Unit setting (hold 'setting' for 3 secs -> '+/-' change unit -> press 'setting' to save)

While the PSI or BAR icon is flashing, press the "+" or "-" button or to select the desired unit.



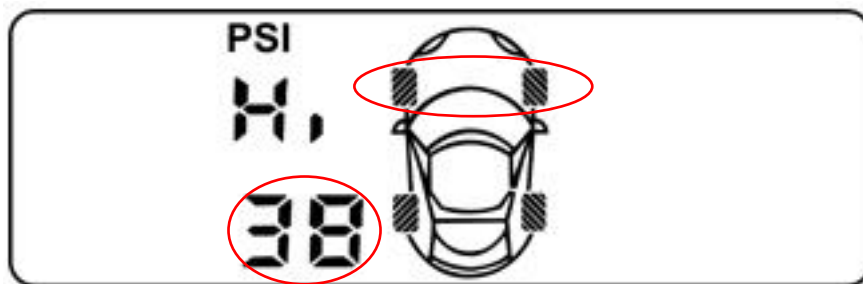
2) Temperature Unit

While "C" or "F" flashing pressure the button flashing pressure the button "+" or "-" to select desired unit.



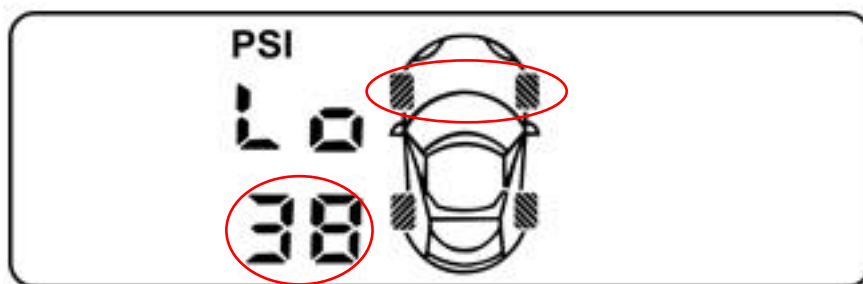
3) High Pressure Setting for Front Tire

While the two front tire icons and high pressure icons are flashing, press the button "+" or "-" to select the desired pressure data.



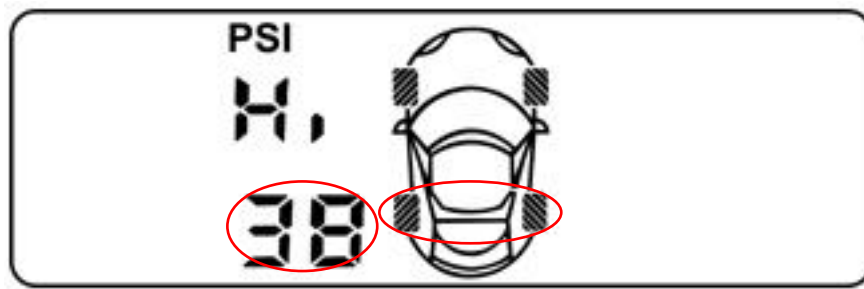
4) Low Pressure Setting for front Tiers

While the two rear tire icons and the high pressure icons are flashing, Flash press the button "+" or "-" the desired pressure data.



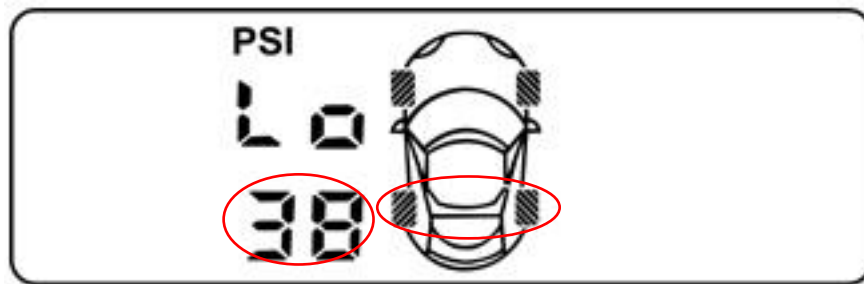
5) High Pressure Setting for Rear Tires

While the two rear tire icons and the low pressure icons are flashing, press the button "+" or "-" to select the desired pressure data.



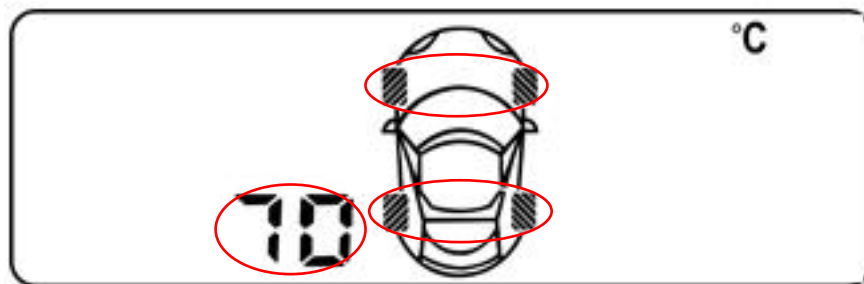
6) Low Pressure setting for Rear Tires.

While the two rear tire icons and the low pressure icons are flashing, press the button "+" or "-" to select the desired pressure data.



9) High Temperature Setting



While the high temperature data flashing, press the button "+", "-" to set the desired temperature data.



6. Alerts

High / Low Pressure Alert / High Temperature Alert / Fast Leakage Alert / Sensor Low Battery Alert

The monitor displays the temperature or the pressure data of four sensors simultaneously,

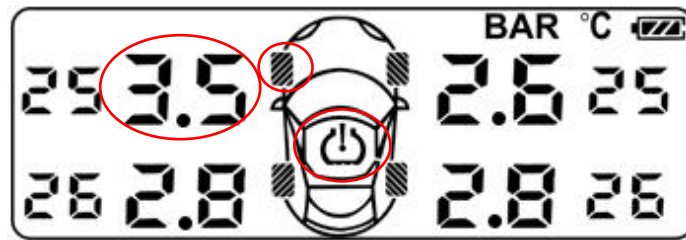
The corresponding alert icon ( , ), and red LED will flash together with a warning beep when the sensor detects abnormal conditions from the tire. Press any button to turn off the beep, but the faulty tire and the alert icons will still flash until the problem has been settled.

Factory default setting.

High pressure warning value:	3.0 BAR
Low pressure warning value:	2.0 BAR
High temperature warning value:	70 °C

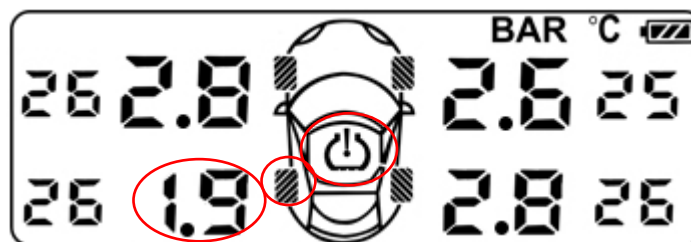
6.1 High Pressure Alert

While the front left tire pressure is 36PSI, the monitor will alert together with a warning beep, and the red LED will flash.



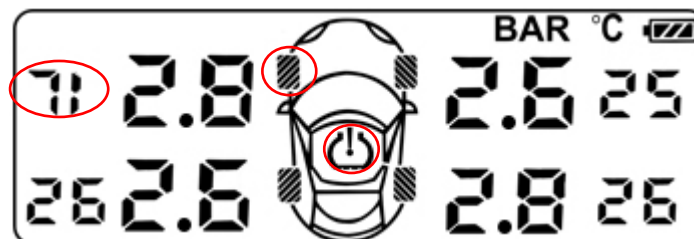
6.2 Low Pressure Alert

While the rear left tire pressure is 1.9BAR, the monitor will alert together with a warning beep, and the red LED will flash.



6.3 High temperature alert

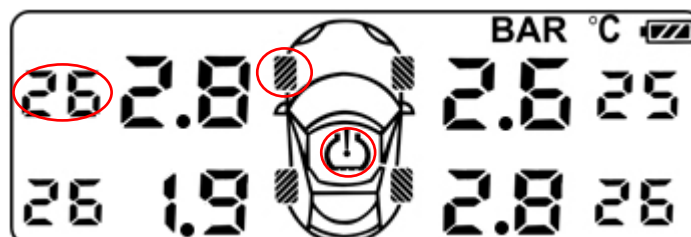
While the front left tire temperature is 71 degree, the monitor will alert together with a warning beep, and the red LED will flash.



6.4 Fast Leakage Alert

While the sensor battery voltage is low, the sensor will send the alert to the monitor. The corresponding tire icon and the low battery icon will flash together with the red LED, the warning beep will be issued by the monitor. Press any button to turn off the warning beep, but the tire icon and the low battery icon will still flash together with the red LED till the new sensor battery has been replaced.

If the front left tire pressure drop from 2.3 BAR to 2.0BAR, below alert will activate.





7. Other Features

7.1 LCD save the Power

If the car stop for 10 mins and without charging, LCD monitor will go to sleep mode. LCD monitor will turn off and don't receive the signal from sensor, press any key or vibrate the LCD monitor, it will back to normal.

7.2 Monitor charging

The solar power battery inside the monitor can full refill in 2.5 hrs by sunlight or car DC power. The solar panel can only charge when sun light is strong enough and the icon “” will display on the LCD if battery is charge. If icon “” shows on the LCD monitor, it means battery in a low level.

8. Programming Setup

Factory has coded the four sensors data into the monitor and each sensor is marked with tire number. User should install the sensors to the corresponding tires according to the instruction. In case of tires exchange or wrong sensor ID, user can recode the sensor by inflating code. Steps are as below:

8.1 Inflating code

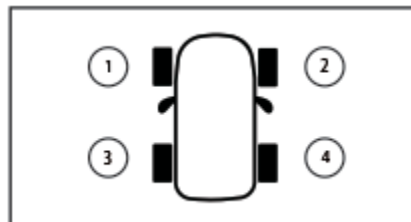
In standby mode, press button “+” for 1 or 2 seconds, release after the FIRST beep to enter inflating code mode. One of the tire icon will flash together with the corresponding 6 digits ID code, if no ID code is saved for the tire. Press button “+” or to select the desired tire, then install the external sensor on the tire valve to code the sensor.



9. Sensor Installation Sensor location installation:

The factory has already set up the codes for the 4 sensors which are provided and matched with the monitor, and each sensor is marked with the corresponding tire position(front left: 1, front right: 2, rear left: 3, rear right: 4), Please install each sensor in the correct tire position as per the right diagram .

Installation diagram:



Note: Please install the sensor in the fixed position as it requests, if you forget the position of the sensor, use 'Inflating Code' to relocate the sensor.

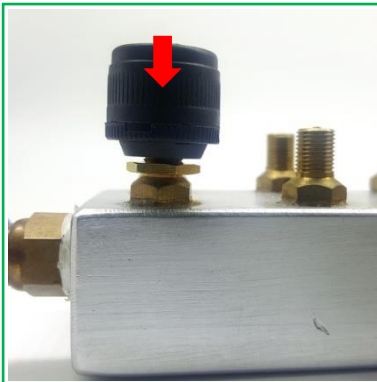
9.1 Install the tire sensor in tire valve

1



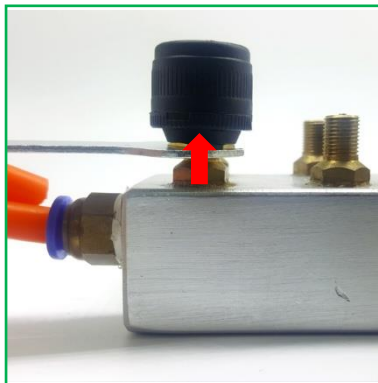
Fix the hexagon nuts in tire valve

2



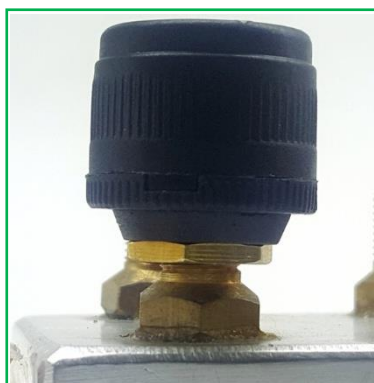
Fasten tire sensor to the tire valve (**downward** direction)
It may be still some space between tire Sensor and hexagon screw when sensor has firmly locked in tire valve

3



Use hex wrench to tight hex nuts (**upward** direction).
Screw hex nuts as long as it hard to upward.

4



Finished the installation

Note

1. The monitor should be installed inside the vehicle where it does not affect normal driving.
2. The monitor should be well fixed to avoid falling off during driving.
3. After the sensor installation, it is highly recommended to check for any air leakage.
4. This TPMS can effectively monitor tire pressure and temperatures but cannot prevent traffic accidents, regular tire inspection and maintenance is still necessary.
5. After the system is installed correctly, the driver does not need to stare at the monitor all the time while driving. Alerts will be issued when abnormal conditions are found in the tires.

FCC Statement

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 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.

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

FCC Radiation Exposure Statement

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.