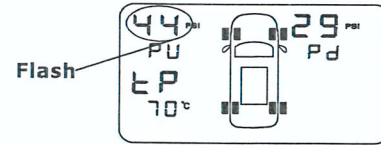


# TPMS

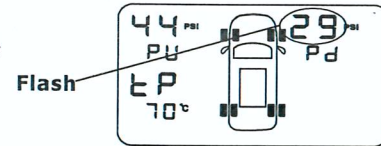
## ② High Pressure (PU) Setting

When the high pressure data is flashing, press the + or - button to adjust.



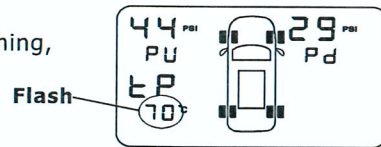
## ③ Low Pressure (Pd) Setting

When the low pressure data is flashing, press the + or - button to adjust.



## ④ High Temperature (tP) Setting

When the high temperature data is flashing, press the + or - button to adjust.



## 6. ALERTS

The sensors send pressure and temperature readings to the monitor every 5 minutes. If any reading is out of the pre-defined values, you will notice 3 things:

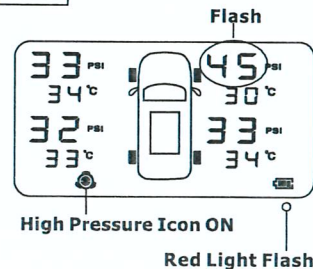
1. An audible alarm;
2. The red light on the monitor will flash;
3. The corresponding icon will show on the monitor.

Press any button to switch the alarm off. However, the red light will not be turned off until the correct pressure and temperature settings are restored to within range. The factory preset values are:

High Pressure:	44PSI (3.0 BAR)
Low Pressure:	29PSI (2.0 BAR)
High Temperature:	70°C (158°F)

### 6-1. High Pressure Alert

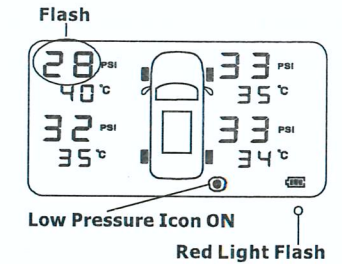
When the sensor detects high pressure in a tire, it will send an alert to the monitor immediately. The **High Pressure Icon** will show on the LCD and the high pressure data will flash. The audible alarm will be on together with the flashing red light. Press any button to turn off the alarm. However the flashing red light and icons will continue until the problem is corrected.



# TPMS

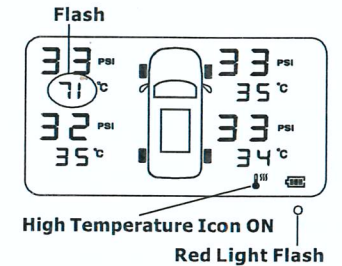
## 6-2. Low Pressure Alert

When the sensor detects low pressure in a tire, it will send an alert to the monitor immediately. The **Low Pressure Icon** will show on the LCD and the low pressure data will flash. The audible alarm will be on together with the flashing red light. Press any button to turn off the alarm. However the flashing red light and icons will continue until the problem is corrected.



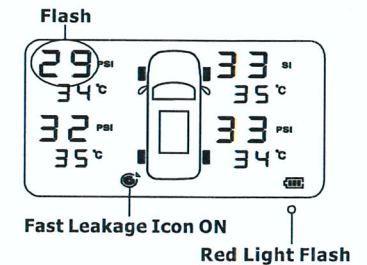
## 6-3. High Temperature Alert

When the sensor detects high temperature in a tire, it will send an alert to the monitor immediately. The **High Temperature Icon** will show on the LCD and the high temperature data will flash. The audible alarm will be on together with the flashing red light. Press any button to turn off the alarm. However the flashing red light and icons will continue until the problem is corrected.



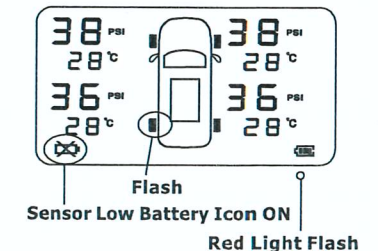
## 6-4. Fast Leakage Alert

When the sensor detects abnormal loss of tire pressure, it will send an alert to the monitor immediately. The **Fast Leakage Icon** will show on the LCD and the pressure data will flash. The audible alarm will be on together with the flashing red light. Press any button to turn off the alarm. However the flashing red light and icons will continue until the problem is corrected.



## 6-5. Sensor Low Battery Alert

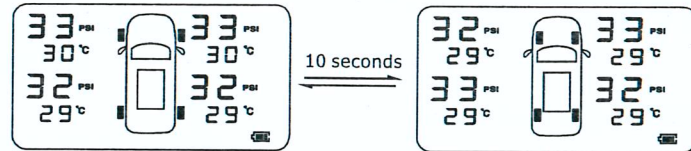
When the sensor detects low battery level, it will send an alert to the monitor immediately. The **Sensor Low Battery Icon** will show on the LCD and the corresponding tire icon will flash. The audible alarm will be on together with the flashing red light. Press any button to turn off the alarm. However the flashing red light and icons will continue until the sensor has been replaced with a new battery.



## 7. MONITOR DISPLAY IN STANDBY MODEL

### 7-1. Viewing Pressure and Temperature data

The monitor will display 4 tires pressure and temperature in one screen. If there are more than 4 sensors, the monitor will display other sensors in second screen in 10 seconds cycles.



## 8. OTHER FUNCTONS


### 8-1. Monitor Sleep Mode

If the vehicle does not move for 5 minutes, the monitor will enter sleep mode to save power. The monitor will turn off and will stop receiving sensor data. Pressing any button or touching the monitor will enter standby mode again. The monitor will also return to standby mode when it detects movement.

### 8-2. Backlighting

The monitor has a built in light and motion sensor. The backlight only turns on when it detects the vehicle is in motion and when it is dark enough. The monitor will be in sleep mode to conserve 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. Press any button on the monitor to turn on the backlight manually, to turn it off, press and hold the + button for 3 seconds.

### 8-3. Charging the Monitor

The lithium-ion battery inside the monitor, when fully charged, is capable of running for 28 hours. For example, if you drive 4 hours per day, the monitor can be used for one week without connecting the power cord. When the  appears, a recharge is required. You need to charge the battery immediately. It will take 4 hours to charge fully.

## 9. RE-CODE THE SENSORS TO THE MONITOR

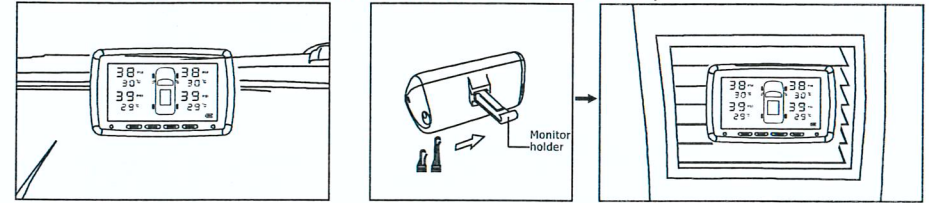
The factory has already coded 4 sensors to the monitor, and the sensors can be re-coded according to actual tires' position after exchanging the tires. There is **Inflate Code Learning** for re-code the sensors:

e.g.: The left rear tire and left front tire need to be exchanged. Before exchanging, the ID code of the sensors at left rear tire is "06d6AF", and the ID code will be "FF FF FF" after it re-codes to left front tire, and the ID code of the left front tire will be "06d6AF".

## 4. INSTALLATION

### 4-1. Monitor Installation

1. Install the monitor inside the vehicle cabin without obstructing the driver's vision of the road.
2. Place the monitor on the dashboard using double-sided tape, or you can mount it on the air vent by using the monitor holder.
3. Plug the power adapter into the cigarette lighter to charge the monitor fully (It must be charged more than 4 hours at the first time).



### 4-2. Turning the Monitor ON or OFF Manually

You can turn off the monitor when you park the vehicle for a long period. You can turn on/off the monitor manually by pressing and holding the - button for 6 seconds. The monitor will also turn off automatically if the battery is used up.

## 5. PARAMETER SETTINGS

1. In standby mode, press and hold the **MODE** button and release it after the beep.
2. Press the **MODE** button repeatedly to scroll thru the different parameters.
3. Press the + or - button to adjust the desired settings.
4. Press the **SET** button and release it after the beep to save the settings.
5. If no action is taken for 1 minute, the system will return to the standby mode with saving the settings.
6. Please find the sequence of the parameter setting as per points 5-2 below.

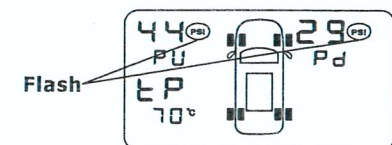
### 5-1. Factory Default

Pressure Unit:	PSI
High Pressure:	44PSI (3.0 BAR)
Low Pressure:	29PSI (2.0 BAR)
High Temperature:	70°C (158°F)

### 5-2. Settings Sequence

#### ① Pressure Unit Setting

While the **PSI**, **BAR** or **Kgf/cm<sup>2</sup>** icon is flashing, press the + or - button to select.



# TPMS

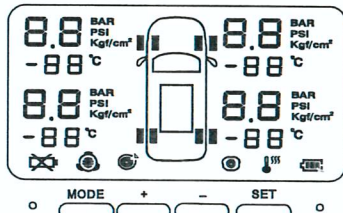
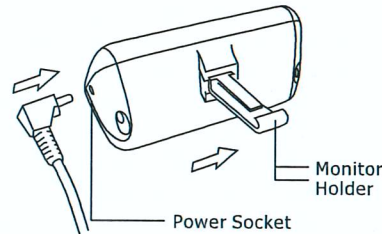
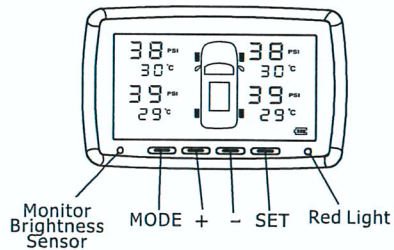
## 3. SYSTEM COMPONENTS



Item	Q'ty
Monitor	1pc
Monitor holder	2pcs
Magic tape	1pc
Power adaptor	1pc

\*Sensors Quantity depends on customer requirement, default factory presets are 4 sensors, maximum can code up to 8 sensors.

### 3-1. Monitor Components and Icons



Pressure Unit : BAR,PSI,Kgf/cm<sup>2</sup>, user-selectable  
Temperature Unit : °C

Icon	Description
	Tire Indicator
	Sensor Low Battery Indicator
	High Pressure
	Fast Leakage
	Low Pressure
	High Temperature
	Monitor Battery Indicator

# TPMS

## 9-1. Inflate Code Learning

In standby mode, press and hold the **SET** button and release it after the second beep, and it will enter into inflate code learning. Then, the right front tire (1) icon will flash with "FF FF FF" data, press **SET** button again to select the desired tire, mount the sensor onto the tire valve, the sensor will send the sensor code to the monitor and the monitor will display the sensor code after the beep if the ID code learned successfully. Select the other tires and repeat this procedure for the other sensors. Press the **SET** button and release it after the beep to exit with storing the ID code .

## 10. SPECIFICATIONS

### 10-1. Monitor

Operational Temperature	-20°C ~ 80°C
Storage Temperature	-30°C ~ 85°C
Charger Input Voltage	DC 8 ~ 30V
Transmission Frequency	433.92MHz
Size	85(L) x 40(W) x 51(H) mm
Weight	130g

## 11. CAUTIONS

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.

**\*Information in this manual is subject to change without notice.**

## 1. TPMS MAIN FEATURES

### Reduce Driving Risks

It was reported that an astonishing 75% of all running tires in the USA are under-inflated and 70% of fatal traffic accidents were caused by tire blowouts. With a TPMS, drivers are warned of abnormal tire conditions before it becomes dangerous.

### Improve Fuel Economy

Today's tire designs make visual inspection of deflated tires very difficult. Very often, a 30% under-inflated tire looks very much like a fully inflated one. A TPMS will make sure your tire pressure is at its proper level. A 9PSI drop in tire pressure will cause approximately 4% increase in fuel consumption.

### Prolong Lifetime of Tires

The following table shows a simple relationship between tire pressure and tire lifetime:

Tire Pressure	Tire Lifetime
20% under inflated	30% less
30% under inflated	45% less
20% over inflated	10% less

## 2. PRODUCT FEATURES

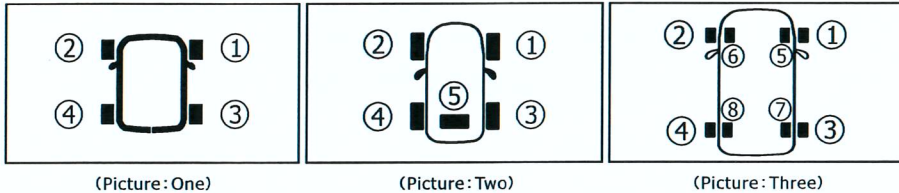
### 2-1. Monitor Features

- Reliable and easy to install.
- Built-in rechargeable lithium battery.
- Automatic backlight.
- Automatically wakes when vehicle starts moving.
- Configurable high/low pressure warnings.
- Configurable high temperature warnings.
- Visible and audible alerts.
- Selectable pressure units: PSI ,BAR, Kgf/cm<sup>2</sup>.
- Monitors up to 8 tires maximum.
- Displays pressure and temperature of 4 tires simultaneously.

**1. INSTALLATION**

**\* Sensor Location:**

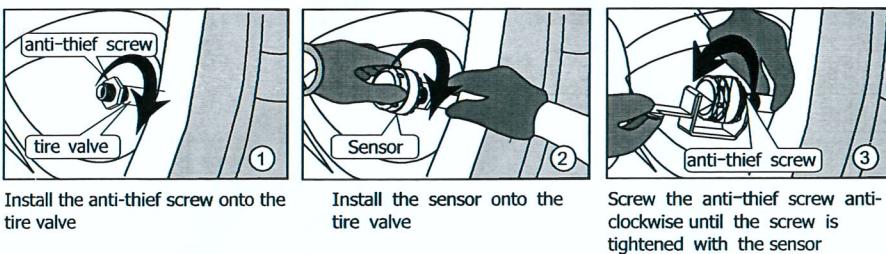
The manfactory has already set up the codes for the 4-8 sensors which are provided and matched with the monitor, and each sensor is marked with corresponding tire position(1, 2, 3, 4,5,6,7,8), Please make sure each sensor is installed in the correct position as the picture below:



If the tire position is forgot by the user or the sensors' codes have been changed on the monitor, the user can recode the sensors by inflating code. The inflating operation is shown on the other part of the manual.

**\* Sensor Installation:**

**Note:** Please ensure to turn on the monitor before sensor installation, in order to make sure the monitor can receive the sensors' code on time.

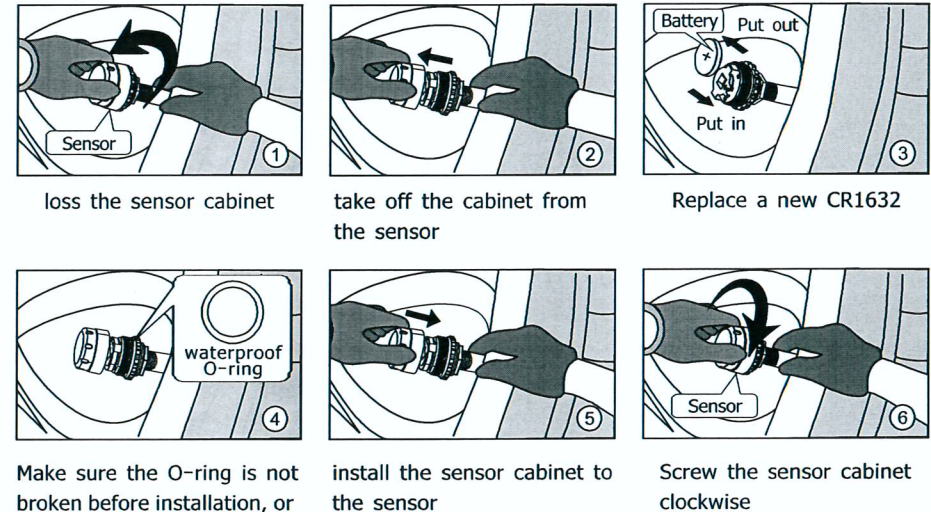


**Attention:**

1. Each sensor is marked with the label to be installed on the right tire.
2. Low battery alert will be issued by the monitor when the battery voltage is low.
3. Be sure to check if there is leakage after sensor installation. Soap bubbles can be applied to the tire valve to check leakage.

**2. REPLACING THE SENSOR BATTERY:**

The sensor battery should be replaced on time when the monitor the battery icon displayed on the monitor. The CR1632 battery (working temperature -40°C to +80°C) is available from the distributors.



Make sure the O-ring is not broken before installation, or else a new O-ring provided in the accessories should be replaced.

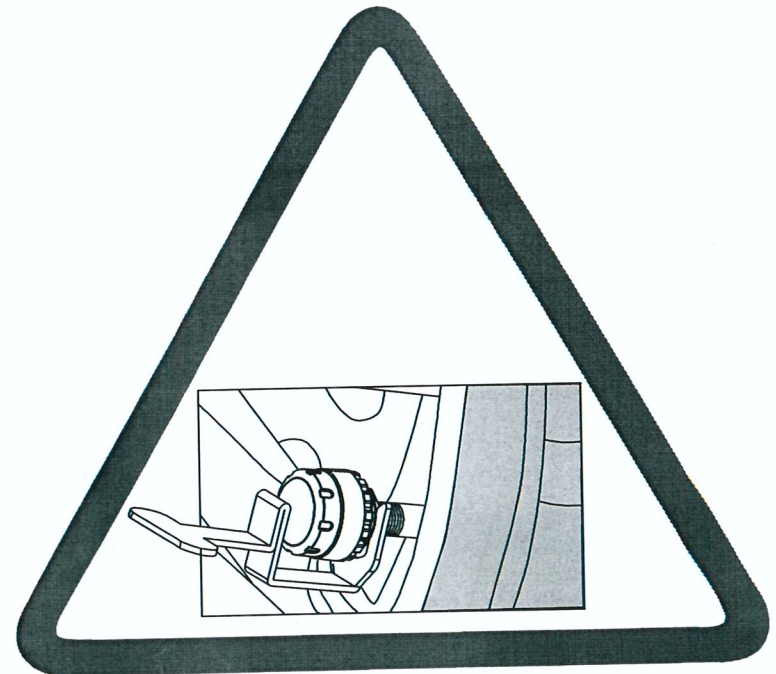
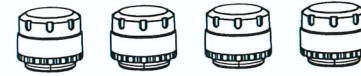
**3. SPECIFICATIONS**

Operational Temperature	-40°C ~ 80°C
Storage Temperature	-40°C ~ 85°C
Pressure Range	0~6 bar, 0~87 psi
Pressure Accuracy	± 1.5 psi( ± 0.1 bar)
Temperature Accuracy	± 3°C
Transmission Power	<10dBm
Transmission Frequency	433.91~433.93MHz
Battery Life	>2 years (CR1632 -40°C~80°C)
Size	21mm(diameter) 21mm(height)
Weight	9g

# WIRELESS TIRE PRESSURE AND TEMPERATURE MONITORING SYSTEM

# TPMS

## Instruction Manual S0 Sensors Series



Revision: 01