# Tire Pressure Monitoring System

## Instruction Manual

## CL205

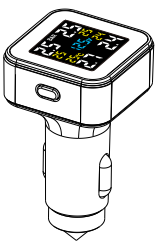
TPMS

Implementation Standard:Q/YAT001-2017

# Contents



**Product Picture**



CL205

# 1. Product Introduction

## 1-1 Production Introduction

Thanks for choosing our TPMS. The system consists of sensor and display monitor is used to monitor the pressure and temperature of each tire. Once alarming condition is set up by the user, the system will alarm in case of abnormal pressure and temperature and alert the driver of any danger . The system also enhance fuel efficient, prolong tire life and make the driving more comfortable. Be sure to read the user guide carefully before installation and keep the manual for future use.

## 1-2. SAFETY CAUTION

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

(1) The monitor should be installed inside the vehicle where it does not affect driving visibility.
(2) The vehicle should be stopped for cooling if there is a high temperature alarm in order to avoid braking problem or tire blowout.
(3) Driver should stop the vehicle and get off to check the tire if there is continue high pressure or slow leakage alarm .
(4) Be ware of tire blowout when there is high tire pressure, and be ware of fuel consumption and wheel balance while in low tire pressure.
(5)The system can effectively monitor tire pressure and temperature but cannot avoid all traffic accident or tire blowout. Using quality tire product and monitor correct tire pressure is still necessary.
(6) Be ware of driving safety while checking tire data during driving.
(7) After the system is installed correctly, the driver does not need to look at the monitor all the time during driving.

## 1-3. INSTALLATION TIPS

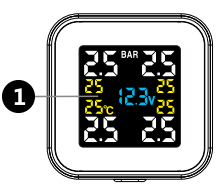
1.The signal transmission from the monitor and sensors is wireless, and the transmission distance designed is long enough for a passenger car due to internal anti-inference circuit design,this is a normal.
2.Due to the air expansion and contraction, the tire pressure and temperature will normally changing all the time while driving. this is a normal phenomenon.
3.There will be a natural air leakage in every tire rim, TPMS should have no responsibility to keep the tire pressure unchanged after long time storage or driving.
4.Should you have any question or problem regarding the installation, please contact with your local distributor.

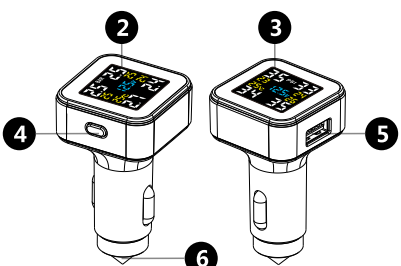
## 2. Product Features

- Pressure, Temperature Alarm
- Visual & Audio Alarm
- Tire setting Interchangeable
- Safety escape hammer
- Fixed Pressure, Temperature alarm level setting
- Multiple measurement unit (PSI/BAR)
- 4 wheel display at the same time
- Fast leakage alert
- Easy installation, stable performance
- Display car voltage

## 3. Product Assembly

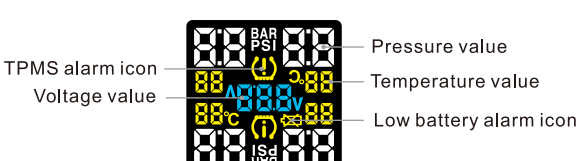
### 3-1 Display Key and LCD diagram




**1.**LCD full display
**2.**Display by BAR
**3.**Display by PSI
**4.**"SET" button
**5.**Current input 2A
**6.**Safety escape hammer

BAR/PSI options / Temperature ℃ only



### 3-2. Product components

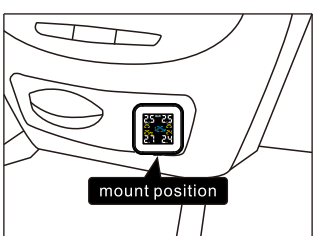
Display components:


Display (appearance refer to the item purchased)

## 4. Installation Instruction

### 4-1. Monitor Display Installation

Design of this monitor is to use cigarette lighter adaptor (CLA) power for easy installation and avoid any obstacle to driver view. Please plug in the CLA firmly to begin the normal mode operation and upon power up through CLA.




**Tips:**

1. When reading the data form the monitor requires additional safety awareness during driving.
2. The purpose of this monitor is to allow alarm to the driver on time and no need driver's attention during driving.

### 4-2. Safety escape hammer

The pedestal of the display can broke the glass, pull out the display and use the keen-edged pedestal broke the glass when you trapped in car.

## 5. Parameter Settings

### 5-1. Display angle setting

Long press the “SET” button for 3 seconds to access the display angle interface, when the TPMS alarm icon start flashing, quick press the “SET” button once, the TPMS icon will reversal 180 degree, long press the button for 3 seconds to save and exit to the normal mode.


### 5-2. Pressure unit setting

Long press the “SET” button for 3 seconds to access the display angle interface, then long press the button for 1 second to access the pressure unit choosing interface, when the selected pressure unit start flashing, quick press “SET” button once, it will change to another unit and flash. After selected the unit, long press the button for 3 seconds to save the setting and return to the normal mode.


### 5-3. High pressure setting

Long press the “SET” button for 3 seconds to access the display angle interface, then long press the button for 1 second to access the pressure unit choosing interface, long press the button 1 second again to access the high pressure setting interface, when the selected high pressure value start flashing, quick press “SET” button once, the value will increase, after select the suitable value, long press the button for 3 seconds to save the setting and return to the normal mode.

### 5-4. Low pressure setting

Long press the “SET” button for 3 seconds to access the display angle interface, then long press the button for 1 second to access the pressure unit choosing interface, long press the button for 1 second again to access the high pressure setting interface, long press the button for1 second one more time to access the low pressure setting interface, when the selected low pressure value start flashing, quick press “SET” button once, the value will increase, after select the suitable value, long press the button for 3 seconds to save the setting and return to the normal mode.


### 5-5. High temperature setting

Long press the “SET” button for 3 seconds to access the display angle interface, then long press the button for 1 second to access the pressure unit choosing interface, long press the button for 1 second again to access the high pressure setting interface, then long press the button for 1 second one more time to access the low pressure setting interface, long press the button for 1 second one more time to access the high temperature setting interface, when the selected temperature value start flashing, quick press “SET” button once, the value will increase, after select the suitable value, long press the button for 3 seconds to save the setting and return to the normal mode.


## 6. Display parameter

The display shows 4 tires pressure, temperatureand voltage input at the same time


BAR display interface


PSI display interface

## 7. Alarm Status

**High Pressure/ Low Pressure/ High Temperature/ Fast Leakage/ Sensor Low Battery alarm**

Display is designed to use same user interface to show 4 wheels pressure & temperature reading together, when tire pressure excess its preset alarm limits, display will indicate corresponding alarm icon ( , ) through flash and sound. Press "SET" once will stop the alarm sound , the flashing icon can only be stopped when tire problem is physically resolved.

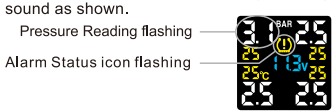
Factory default alarm setting:

| | |
|---|---|
| High Pressure Alarm level | 3.0BAR (44 PSI) |
| Low Pressure Alarm level | 2.0BAR (29 PSI) |
| High Temperature Alarm level | 80 ℃ |

**Steps to restore factory default setting:** press and hold SET key and plug the console into the cigarette lighter power socket until a "Bi" sound display to confirm factory setting was restored.

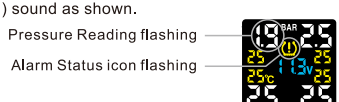
### 7-1. High Pressure Alarm

e.g. Left Front tire pressure reach 3.1BAR, display showing alarm together with (Bi…Bi…Bi…) sound as shown.



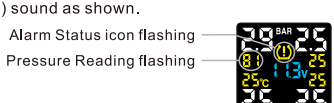

### 7-2. Low Pressure Alarm

e.g. Left Front tire pressure reach 1.9BAR, display showing alarm together with (Bi…Bi…Bi…) sound as shown.




### 7-3. High Temperature Alarm

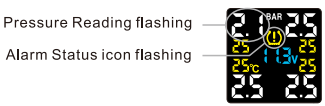
e.g. Left Front tire pressure reach 81°C, display showing alarm together with (Bi…Bi…Bi…) sound as shown.



## 7-4. Fast Leakage Alarm

Sensor will signal to monitor immediately once a fast leakage is detected. pressure reading, and alarm icon will flashing together, alarm (Bi…Bi… Bi…) will sound. Press "SET" once will stop the alarm sound , the flashing icon can only be stopped when tire problem is physically resolved.

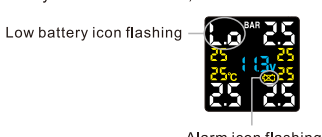
e.g. Left Front tire pressure dropped from 2.4BAR to 2.1 BAR, fast leakage display as shown.




## 7-5. Sensor Low Voltage Alarm

Sensor will signal to monitor immediately once a fast leakage is detected. Alarm (Bi..BI..BI..) sound for 10 seconds, and alarm icon " Lo ," will flash. "Pressure reading" and " Lo " icon will flash alternatively ( " Lo " flash 3 second, "pressure reading" flash 5 seconds). Those flashing icon can only be stopped when sensor battery was replaced by new one.

e.g. left front tire battery low was detected, monitor alarm display as shown:




## 7-6. Sensor fault

If display didn't receive the sensor data for a long time, it will trigger the sensor fault alarm.

## 8. Custom ID coding

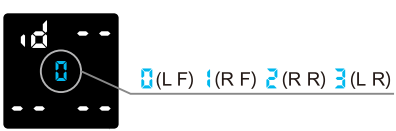
In standby mode, quick press “SET” button for 5 times to enter learning mode, ID digit will be shown on the left front area, other area shows the six digit ID and flash, if without ID learned, then flash with transverse line. The number in the middle representative tire position.

Short press “SET” button once, the number will in the middle increase, it means the tire position changed, install the sensor onto the tire valve, once the sensor sensed the inflation, the sensor will send its own ID code to the display and the display will show the sensor ID code after the beep.

If no new ID code is received, the ID code will not change and there is no beep sound.

The new ID code will immediate replace the old ID code if several IDs received, so make sure the ID learning order is correct

After all sensors ID learned, long press the “SET” button for 3 seconds, the display will save the setting and exit to the normal mode after one beep.



## 9. Technical Specification

| | |
|---|---|
| Working temperature | -20℃~ 80℃ |
| Storage temperature | -30℃ ~ 85℃ |
| Output Voltage | DC 12 ~ 24V |
| Frequency | 433.92MHz |
| Dimension | 39*38*69 mm |
| Weight | 44g |

## 10. Friendly reminder

(1) Please use the system correctly in the right condition. Our company is not responsible for damages from the improper-use.
(2) Installation should follow the instruction guide, our company is not responsible for any damage caused by improper installation..
(3) The content and specification are subject to change without prior notice. Pictures in the article are just for illustration. Please take the actual product for reference.
(4) Internal sensor installation should be carried out by professional personnel. Be ware of the internal sensors while reloading the tire.