

TYPEKIT-100

Tire Pressure Monitor System
(TPMS)

FuZhou Tinyo Technology Co., Ltd

FCC STATEMENT

1. 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.
 - (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

WARNING

1. This product has been already set up parameters, please turn the sensor follow by the coding instructions, install on the corresponding tire position of " left front, left, right, right after ". Tire balance after sensor installed, main power switch, system start self-test after about 10 seconds, then can be normal work, without parameter setting, adjustment again.
2. When the system displays a "di di di" buzzer or failure icon flashes continuously, please as soon as possible speed down to safety or go to tire repair, check the tire pressure condition, in order to ensure your safety.
3. This system can monitor effectively on the tire pressure and temperature, but could not prevent the occurrence of unexpected incidents. By using this system users should ensure that the car in the normal tire pressure and temperature conditions of running, and avoid the use of bad quality or badly worn tyre.
4. The system has the function of automatic monitoring, Real-time monitoring for gas leakage, low pressure, high pressure, high temperature and malfunction of sensor, automatic sound & light alarm, the driver not need frequent pushing the button to view in order to avoid distract attention during the driving.
5. In order to avoid injury system equipments, please do not attempt to remove any of the outer casing of components.

CATALOGUE

FCC STATEMENT	1
WARNING	2
CATALOGUE	3
CHAPTER 1 FUNCTION INTRODUCE	4
CHAPTER 2 DISPLAY KEY-PRESS FUNCTION DIRCTION	4
CHAPTER 3 SCREEN DISPLAY PAGE.....	4
CHAPTER 4 PRINCIPLES	5
CHAPTER 5 SETTING DIRCTION	6
PARAMENTERS (PRESSURE, TEMPERATURE ALARM THRESHOLD VALUE SETTING) .	6
1. PRESSURE CAP SETTING	6
2. PRESSURE CAP SETTING	7
3.TEMPERATURE UPPER LIMIT SETTING (SIMILAR TO THE UPPER PESSURE LIMIT SETTING).....	7
4.TIRE CODE SETTING	7
5.TEMPERATURE DISPLAY UNIT	8
6. PRESSURE DISPLAY UNIT	8
7.RESTORE FACTORY SETTING	9
CHAPTER 6 ALARM FUNCTION.....	9
CHAPTER 7 INSTALLATION DIRECTION	9
1. DISPLAY INSTALLATION.....	9
2. POWER INSTALLATION.....	9
3. SENSOR INSTALLATION.....	10
CHAPTER 8 TECHNICAL PARAMETER.....	11
CHAPTER 9 TERMS OF SERVICE	11
COMMON PROBLEM.....	12

CHAPTER 1 FUNCTION INTRODUCE

TYPEKIT-100 tire pressure monitor system can real-time monitoring of tire pressure, and alarm for the high or low pressure, air leakage, inner tire temperature and sensor failure, reduce traffic accident probability. System factory default when the air pressure is lower than 1.9Kg/cm² or higher than 3.0Kg/cm², leakage, internal temperature higher than 70°C, time is not received sensor signal will automatically alarm (not recommended to modify the above alarm threshold).

Overpressure alarm: alarm when excessive tire pressure

Undervoltage warning: alarm when low tire pressure

Temperature alarm: alarm when high tire temperature

Leakage alarm: alarm when tire fast leakage

Failure alarm: alarm when sometime is not received sensor signal

Setting function: setting pressure & temperature alarm threshold value code

Learning function: replacement for sensor

Tire rotation function: mutual exchange for tire

CHAPTER 2 DISPLAY KEY-PRESS FUNCTION DIRCTION

【OK】	OK
【C】	CLOSE DELETE CANCEL BACK
【<】	MOVE ADJUST
【>】	MOVE ADJUST
【Ø】	ON/OFF

CHAPTER 3 SCREEN DISPLAY PAGE

- Starting up into a main page:



If a tire temperature or pressure anomaly, backlight will automatically light up, screen corresponding to the position in red font, while displaying the " abnormal tyre pressure or temperature anomalies, " buzz reminds, the user can press the **【OK】** or **【C】** button to turn off the alarm, otherwise the main machine will be every 30 seconds alarm 1 second, each with a 1Hz frequency buzzer by 8 times.

The upper right corner of the signal lamp to flash every 3 seconds, means the host is in the normal state of receiving signal, if the battery is lower than 10%, the display will be tips, and in every minute buzzing alarm prompted a 1 charging, signal continues to receive, if the battery is lower than 5%, the system will automatically close the received signal even the automatic shutdown, if the received signal is closed, the upper right corner of the signal lamp does not shine, in order to ensure that the system can normally receive, please ensure that the receiver battery voltage, and pay attention to the upper right corner of the signal light is flashing.

The vehicle is stationary for 5 minutes, the received signal will automatically shut down.

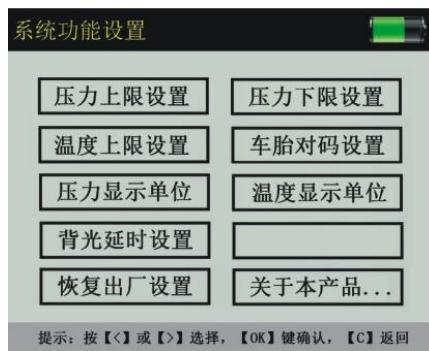
Display shows four tire pressure or temperature in one time, through the screen relative positions can be distinguished. The upper left corner of the screen corresponding to the left front wheel of the vehicle, the lower left corner corresponding to the vehicle 's rear left, right angle corresponding to the vehicle 's front right wheel, the lower right corner of the corresponding vehicle rear right.

CHAPTER 4 PRINCIPLES

TYPEKIT-100 is composed of a central receiver and a group of (4pcs) sensor. Sensors are respectively installed in four within the tire, tire pressure and temperature in the collection, and the pressure, the temperature data through wireless electromagnetic wave signal is transmitted to the central receiver mounted in the compartment. The central receiver receives the temperature and pressure of judgment processed in the screen of a display, when the tire pressure is too high or too low, the tire temperature, exceeding the warning value, sensor faults when it to beep, graphics and other forms to the driver alert, effective early warning tire accident hidden danger, ensure safety driving.

CHAPTER 5 SETTING DIRCTION

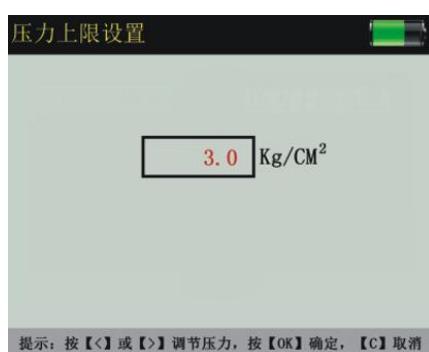
Continuous press 【OK】 button for 3 seconds, the system will enter the settings page: set interface includes " upper limit of pressure settings ", " pressure settings ", " temperature upper limit setting ", " tire on code set ", " pressure display unit", " temperature display unit ", " backlight delay set ", " restore factory set ", " the product " and other functions, through 【<】 or 【>】 moving setting function, press 【OK】 to confirm it needs setting function, press 【C】 to return to a standby interface.



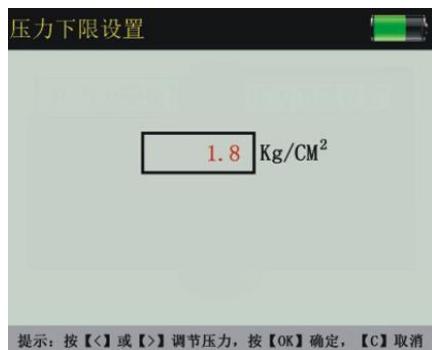
If they really need parameter reset or due to tire rotation, sensor replacement, require sensor can refer to the following operation, (Attention: after sensor learning or tire exchange menu settings, on the corresponding tire deflated or inflated operation, the pressure change of a short period of time to 0.2Kg/cm². Viewing the display corresponding to the tire pressure value whether is normal display or change, in order to test learning and exchange whether is success)

PARAMENTERS (PRESSURE, TEMPERATURE ALARM THRESHOLD VALUE SETTING)

1. PRESSURE CAP SETTING

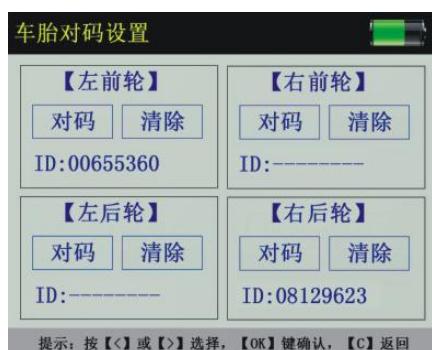


2. PRESSURE CAP SETTING

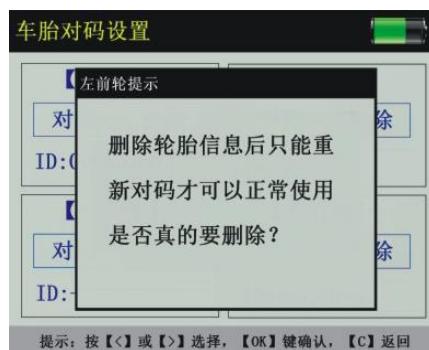


3. TEMPERATURE UPPER LIMIT SETTING (SIMILAR TO THE UPPER PRESSURE LIMIT SETTING)

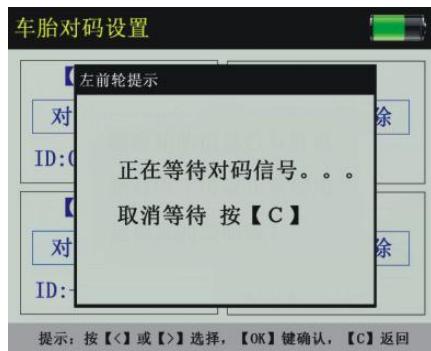
4. TIRE CODE SETTING



The tire code setting interface includes 4 wheels on the code operation, the existing tire information on the code, must clear the current tire information, choose a tire "clear" button, the system prompts the delete, confirmation will remove the tire information, as shown in the following picture:



Select the "code", the system pop-up waiting to accept the code information interface, as shown in the following picture:



When the system receives the code after the package, will prompt to code information, the user can accept or reject this information, and again to the yard, show as below picture:



Select **【OK】**, the system will be numbered from 36438788 transmitters in the host, the next received signal will be updated as the transmitter information, and displayed on the home page.

5.TEMPERATURE DISPLAY UNIT

The temperature display can be degrees Celsius and Fahrenheit, enter the settings page at **【<】** or **【>】** switch.

6. PRESSURE DISPLAY UNIT

The pressure display can be Kg/cm^2 and Bar, enter the settings page at **【<】** or **【>】** switch.

7. RESTORE FACTORY SETTING

Make all configuration restore factory settings, upper pressure limit for the 3.0 kg/cm², pressure is 1.9 kg/cm², temperature is 70 °C, the tire code empty (i.e. removal of all of the tire information), temperature degree centigrade, pressure unit Kg/cm²

CHAPTER 6 ALARM FUNCTION

If a tire temperature or pressure anomaly, backlight will automatically light up, screen corresponding to the position in red font, displaying the " abnormal tyre pressure or temperature anomalies, " buzz reminds, the user can press the 【OK】 or 【C】 button to turn off the alarm, otherwise the main machine will be every 30 seconds alarm 1 second, each with a 1Hz frequency buzzer 8.

The upper right corner of the signal lamp to flash every 3 seconds, this means host is in the normal state of received signal, if the battery is lower than 10%, the display will be tips, and in every minute buzzing alarm prompted a 1 charging, signal continues to receive, if the battery is lower than 5%, the system will automatically close the received signal even the automatic shutdown, if the received signal is closed, the upper right corner of the signal lamp does not shine, in order to ensure that the system can normally receive, please ensure that the receiver battery voltage, and pay attention to the upper right corner of the signal light is flashing.

CHAPTER 7 INSTALLATION DIRECTION

1. DISPLAY INSTALLATION

Use double-sided adhesive to put the display fixed on the easily see place for driver, avoid installation in direct sunlight, so as not to affect the display effect. Make sure the pasting position clean when install, to ensure a solid paste.

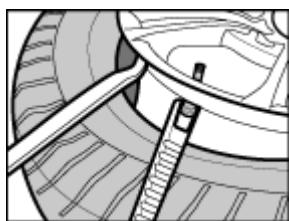
2. POWER INSTALLATION

Directly put power line with a cigarette lighter plug inserted into the car cigarette lighter socket.

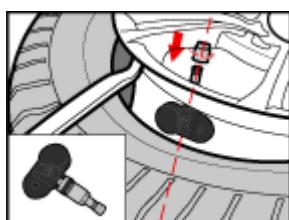
3. SENSOR INSTALLATION

Note: please turn the sensor follow by the coding instructions, install on the corresponding tire position of "left front, left, right, right after" Such as the coding instructions " left ", and the actual installation in the " left " wheel, this needs re-install or change in the menu of " tire checking code "

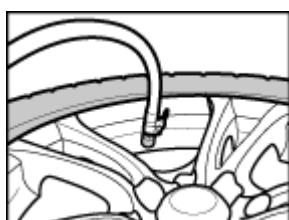
1). According to the standard procedures for removing the tire, remove the tire from the vehicle, deflate and removed the tire rim on the rubber bead.



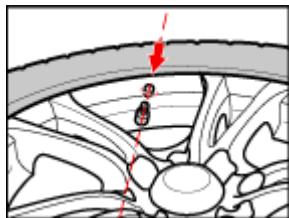
2). Remove the original cycle valve from the tire rims, replaced with a sensor cycle valve.



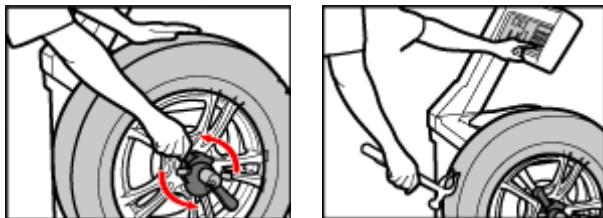
3).Put the rubber tire ring return to the steel ring, and then inflated to the rated pressure of tire.



4). After the installation of tire, check cycle valve and a tire is leaking or not, If not, screwed on the valve cap. If yes, checking the reason before re-install.



5). Test tire balance, and in turn the remaining sensor according to the above steps respectively installed on the corresponding inner tire.



6). Finish to install the 4 tires, then put the tire on the car in the order.

CHAPTER 8 TECHNICAL PARAMETER

	SENSOR	DISPLAY
Frequency	433.92MHz	433.92MHz
Rated voltage	3.6V	5V
Working temperature	-40°C ~ 120°C	-20°C ~ 75°C
Monitoring temperature	-9°C ~ 99°C	
Control pressure	0 ~ 4.2Kg/cm ²	
Precision(room temperature)	Temperature: ± 2°C Pressure: ± 0.1Kg/cm ²	

Pressure unit conversion table: 1Bar=14.5Psi=1.02Kg/cm²=100Kpa

CHAPTER 9 TERMS OF SERVICE

1 This product warranty for two years.

2 From the purchase date within two years, if indeed the product quality, problems, and no privately unpacked equipment shell, the appearance of non-destructive, seal integrity. full kit as a set, can enjoy the free repair by the warranty card.

3 Without the permission of the company, demolition of unauthorized repaired, will not enjoy the warranty.

4 Warranty does not cover for outshell and any corrosion caused by the product break down and damage.

5 Following situations are not covered by the warranty:

- Installing or dismounting tire sensor by improper operation.
Damage caused by the misuse of demolition and reconstruction of the breakdown
- Failure or damage caused during the transit.
- Installation wiring errors lead to failure or damage.
- By external impact damage display can not be normal used.
- Displays in using way contact by high temperature resulted in showing its shell or the internal device is damaged and can not normally work.
- Sensor or monitor by water damage.

COMMON PROBLEM

1 How to set a normal tire pressure and temperature values? All parameters of the vehicle are the same?

Answer: each car pressure values are not the same, details of tire pressure parameter should query automobile manuals or consulting automotive professionals. This products manufactured by default when the tire pressure value upper limit of 3.0Kg/cm², Limit is 1.9Kg/cm², temperature 70 °C, system alarms if over the above the set value. If necessary, do not recommend changes to the above settings.

2 Whether Replacement of the original car cycle valve has the effect?

Answer: Our company adopted the cycle valve made by the aluminum alloy products, fully in line with national standards.

3 if the number of vehicles equipped with TPMS, are parked together, each car can distinguish between their respective sensor?

Answer: each product has its own identity, and will not receive others sensing signal, so if vehicles park together, signals will not mess.

4 Why screen will be darker if not operated for a period of time?

Answer: This is a normal phenomenon, enter to the screen saver power state, press any key will brighten, this is the same way as mobile phone screen
This system has the function of automatic monitoring, automatic alarm when abnormal, driving without regular check so that can avoid distract the attention of the driving.