Tymate

Tire Pressure Monitoring System

User Instruction

Item No. TM527M



Implementation Standard: GB26149-2017

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1. Product Overview

1.1.1 Product Introduction

Thank you for choosing our tire pressure monitoring system, which is composed of sensors and monitor.

The system is used to detect the air pressure and temperature of each tire in real time. The collected pressure and temperature data will be sent to the monitor by means of radio frequency. After the data is received and processed by the monitor, it will be shown on the monitor screen to remind the user to avoid traffic accidents. The corresponding alarms will be issued for different abnormal situations according to the standard pressure and temperature alarm values set by the user.

The system can improve the comfort of the vehicle, reduce fuel consumption and vehicle wear, improving dynamic performance.

Be sure to read the user instruction carefully before installation and keep the instruction for future use. Thank you!

1.1.2 Safety Warnings

Before installing the product, please read the following precautions.

1.2.1 The monitor should be installed in a location where it will not affect the driving vision.

1.2.2 The monitor should be reinforced to avoid falling during driving.

1.2.3 While driving, if the tire temperature rises sharply, the tire pressure will also rise accordingly. If the temperature exceeds the warning value, stop the car to let it dissipate the heat naturally to prevent brake failure or tire burst.

1.2.4 If the pressure continues to rise or drop at an accelerated rate while driving, stop to check for air leaks or other problems.

1.2.5 When the air pressure is too high, you should be aware of a tire blow out. When the air pressure is too low, you should pay attention to fuel consumption and balance.

1.2.6 This product can effectively monitor the tire pressure and temperature in real time, but cannot avoid traffic accidents or tire blowouts. Using high-quality tires is as important as this product to ensure that the tire pressure is normal.

1.2.7 When checking the displayed pressure and temperature values, please pay attention to driving safety.

1.2.8 This product will automatically detect the tires and sound an alarm in case of abnormal situations, so that the driver does not need to pay frequent attention to it so as not to be distracted while driving.

1.3 Installation Precautions

1.3.1 There is a wireless connection between the sensor and the monitor. The transmission distance of them is far enough. Designed with multiple anti-interference functions, the possibility of interference to the sensor and the monitor is extremely low.

1.3.2 During the driving process, due to the thermal expansion and contraction of the air, the tire pressure and temperature will get higher or lower, which is normal.

1.3.3 In general, tires have normal natural air leaks. The tire pressure will decrease over time, which is a normal phenomenon and has no direct relationship with the installation of this product.

1.3.4 If you have any problems with installation, please contact the agent or distributor.

2. Product Features

Monitor

- LED Color Display
- Excessive Pressure and Temperature Alarm
- Visual & Audible Alarm
- Multiple Pressure Unit Options (PSI, BAR)
- Multiple Temperature Unit Options (℃/ ℉)
- Setting Standard Alarm Values for the Tire Pressure and Temperature
- Arbitrary Interchangeability of Tire Positions
- Automatically Turning on the Monitor Backlight
- Supporting up to Four Tires
- Showing the Pressure or Temperature of Four Tires Simultaneously
- Sudden Air Leak Alarm
- Waterproof Design in the Monitor
- An Independent ID Code for Each Sensor
- Easy Installation and Stable Performance

Sensor

- External Valve Sensor, Easy Installation and Stable Performance
- Designed with the Waterproof Function
- Sudden Air Leak Detection and Alarm Function
- Special Installation Fixture Needed to Install the Anti-theft Design
- Replacing the Sensor Battery to Extend the Life span of the Sensor and Make it Easy to Use
- Unique ID Code for Each Sensor

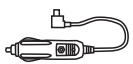
3. Product Composition



Display
(1pc)



Window Mount
(1pc)

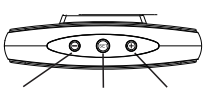


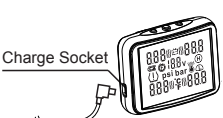
CLA Power Adaptor
(1pc)



Stand Mount
(1pc)

3.1 Monitor Buttons and LCD Image







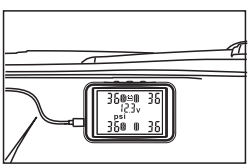
Pressure Unit Option: BAR or PSI
Temperature Unit Option: ℃ or ℉

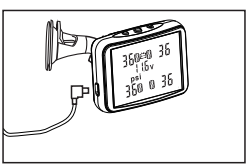
Icon	Description
	Tires
	Low Voltage Alarm of the Sensor Battery
V	Monitor Battery Symbol
	High Temperature Alarm
	Fault Icon
H	High Pressure Alarm
L	Low Pressure Alarm
F	Sudden Air Leak Alarm
	Car Battery Symbol

4. Installation Guides

4.1 Monitor Installation

Install the monitor in a place where it is easy to see in the car. The user can directly paste the monitor on the dashboard with double-sided tape or put up a suction cup in the appropriate position of the windshield to attach it. Then connect one end of the cigarette lighter charger to the monitor and the another end to the cigarette lighter in the car to power it on.





Notice:

1. The monitor should be installed in a position where it will not affect the driving vision.
2. The monitor should be reinforced to avoid falling during driving.
3. When checking the displayed pressure and temperature values while driving, please pay attention to driving safety .
4. This product will automatically detect the tires and sound an alarm, so the driver does not need to pay frequent attention to it so as not to be distracted while driving.

4.2 Sensor Installation

Corresponding Tire Position Diagram for Sensor Installation:

The sensor ID code has been paired before leaving the factory. The sensor can be installed on the tire directly at the corresponding position when installing, and can be used directly. The standard configuration is one monitor paired with 4 sensors， and each sensor uses stickers **(front left, rear left, front right, rear right)** to indicate the corresponding tire position. If there is a spare tire in the vehicle, a sticker **(backup)** is required to indicate the position of the spare tire. When installing, please carefully read the user instruction to paste the label stickers (as shown in Figure 2) to corresponding tires.

Installation Position Diagram:

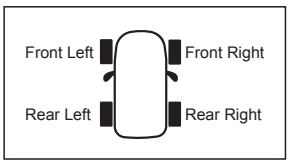


Figure 2

Notice:

Please install the monitor and sensor that have been equipped at the factory into the vehicle. If there is an error code or the position of the sensor is forgotten during the assembly process, you can re-code with the "inflatable code". (Refer to the user instruction of the monitor for details on the operation of the inflatable code.)

The sensor installation steps are as follows.

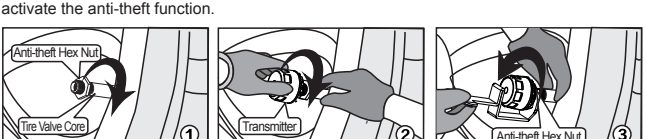
Notice:

Before installing the sensor, please make sure to turn on the monitor so that the data can be sent to the monitor in time after the sensor is installed.

1. First install the anti-theft hex nut into the thread of the car tire valve core.

2. Tighten the transmitter clockwise to the thread of the car tire valve core.

3. Use a clamp to tighten the anti-theft hex nut counterclockwise to the transmitter to activate the anti-theft function.



Notice:

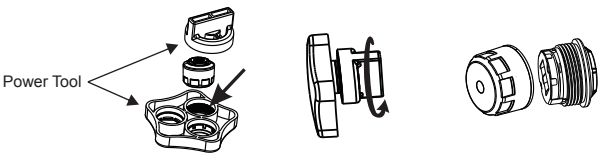
1. Each sensor uses a sticker to indicate its tire position, and it must be accurately installed on the corresponding tire.

2. When the voltage of the sensor battery is low, there will be a low voltage alarm on the monitor.

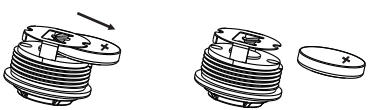
3. After the sensor is installed, please check whether there is any air leak in the tire. If necessary, use soapy water to wipe the tire valve to check.

The steps for replacing the sensor battery are as follows.

1. Use power tools to fasten the upper cover of the sensor and the tire valve respectively, and twirl the sensor housing counterclockwise.



2. Take out the battery from the battery clamp.



3. Install a new lithium battery CR1632 with the positive pole (+) facing upwards.



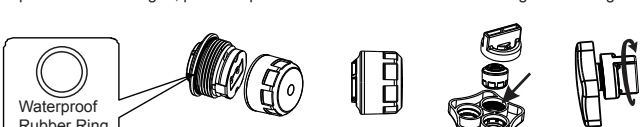
The Negative Pole
Lithium Battery CR1632

The Positive Pole
Lithium Battery CR1632

4. Screw on the sensor housing, and then use a power tool to tighten it clockwise.

Notice:

When installing the sensor housing, be sure to check whether the waterproof rubber ring is in place. If it is damaged, please replace it with a new one before installing the housing.



5. Parameter Settings

In the standby mode, press and hold the **"SET"** key on the monitor. Release it after the first beep sound, and the monitor will enter the first setting interface, and the corresponding LCD symbol will flash. Then press the **"SET"** key to select the parameter item that needs to be set, and press "-" or "+" to set specific parameter values. After the setting is completed, press and hold the **"SET"** key and release it when you hear a beep sound. In this way, you can save the parameters and exit to the normal standby state. When entering the setting state, press "-" or "+" at the same time to exit the setting mode without saving the setting data. If there is no operation within 1 minute in the setting state, the system will automatically exit the setting mode and return to the normal standby state. The setting order of parameter 1-7 is as follows.

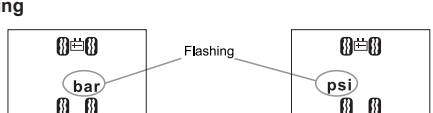
5.1 Factory Settings

Pressure Unit	PSI
High Pressure Alarm Value	3.0BAR (44PSI)
Low Pressure Alarm Value	2.0BAR (29PSI)
Temperature Unit	°C
High Temperature Alarm Value	70°C

5.2 Setting Order

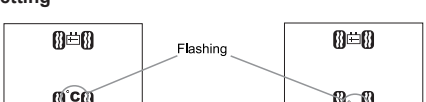
5.2.1 Pressure Unit setting

When the "PSI" or "BAR" icon is flashing, press the "-" or "+" key to select the pressure unit of "PSI" or "BAR" as desired.



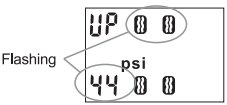
5.2.2 Temperature Unit Setting

When the "℃" or "℉" icon is flashing, press the "-" or "+" key to select the temperature unit of "℃" or "℉" as desired.



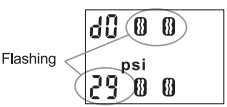
5.2.3 High Pressure Alarm Value Setting of the Front Tire (UP)

When the high pressure parameter and the front tire icon are flashing, press the "-" or "+" key to select the high pressure alarm value required by the user.



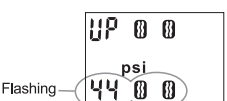
5.2.4 Low Pressure Alarm Value Setting of the Front Tire (DO)

When the low pressure parameter and the front tire icon are flashing, press the "-" or "+" key to select the low pressure alarm value required by the user.



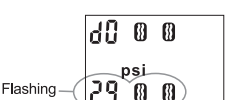
5.2.5 High Pressure Alarm Value Setting of the Rear Tire (UP)

When the high pressure parameter and the rear tire icon are flashing, press the "-" or "+" key to select the high pressure alarm value required by the user.



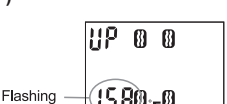
5.2.6 Low Pressure Alarm Value Setting of the Rear Tire (DO)

When the low pressure parameter and the rear tire icon are flashing, press the "-" or "+" key to select the low pressure alarm value required by the user.



5.2.7 High Temperature Alarm Value Setting (UP)

When the high temperature parameter is flashing, press the "-" or "+" key to select the high temperature alarm value required by the user.



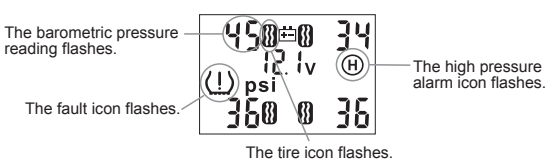
6. Alarm Status

High Pressure Alarm/ Low Pressure Alarm/ High Temperature Alarm/ Sudden Air Leak Alarm/ Low Voltage Alarm of the Sensor Battery

The same interface of the monitor shows the pressure and temperature of 4 tires. When the tire pressure or temperature exceeds the safety range set by the user, the corresponding tire icon, parameter and corresponding fault icon on the monitor screen will flash and sound a warning alarm. Press any key to cancel the alarm sound but the corresponding tire icon, parameter and corresponding fault icon will continue to flash until all the tire faults are resolved.

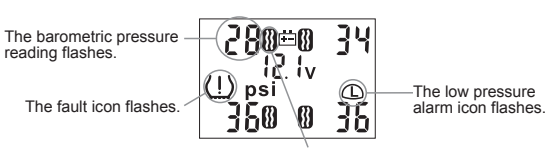
6.1 High Pressure Alarm

For example, when the left front tire pressure value is 45PSI, the monitor will show the picture below with a warning sound (Bi...Bi...Bi...).



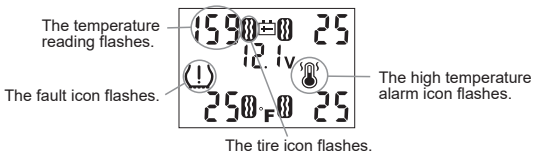
6.2 Low Pressure Alarm

For example, when the left front tire pressure value is 28PSI, the monitor will show the picture below with a warning sound (Bi...Bi...Bi...).



6.3 High Temperature Alarm

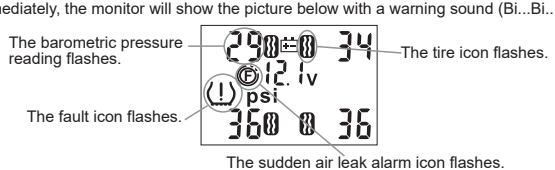
For example, when the temperature of the front left tire is 159°F, the monitor will show the picture below with a warning sound (Bi...Bi...Bi...).



6.4 Sudden Air Leak Alarm

When the sensor detects a sudden air leak, it will immediately send alarm data to the monitor. The corresponding tire icon, barometric pressure reading, and fault icon on the monitor will flash with a warning sound (Bi.....). Press any key to cancel the alarm sound. However, the tire icon, barometric pressure reading, and fault icon will continue to flash, and the normal data cannot be restored until all the tire faults are eliminated.

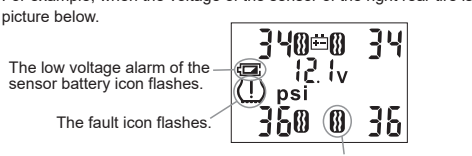
For example, when the pressure of the front left tire drops from 34 PSI to 29 PSI immediately, the monitor will show the picture below with a warning sound (Bi...Bi...Bi...).



6.5 Low Voltage Alarm of the Sensor Battery

When the sensor detects that the battery is in low voltage, it will immediately send alarm data to the monitor. The corresponding tire icon and low voltage icon on the monitor will flash with a warning sound (Bi...Bi...Bi...). Press any key to cancel the alarm sound. But the low voltage icon and tire icon will continue to flash until the sensor is replaced with a new battery.

For example, when the voltage of the sensor of the right rear tire is too low, it will show the picture below.

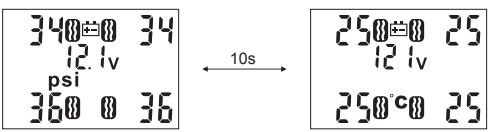


7. Other Functions

Pressure display converts to temperature display.

When the pressure interface is displayed, press the "SET" key once to switch to the temperature display interface. The temperature display interface will automatically switch to the pressure display interface after 10 seconds.

The monitor diagram is as follows.



Manually adjust the backlight and turn off the monitor interface.

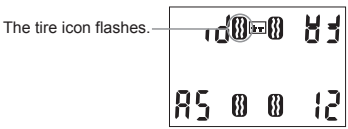
Short press the "-" or "+" key to adjust the brightness of the backlight or turn off the monitor interface.

8. User Code

The 4 sensors have been coded and marked with the tire positions before leaving the factory. The user only need to install the corresponding sensors to the corresponding tires. When the user needs to exchange the tires, or there is a wrong code, or the position of the sensor is forgotten during the assembly process, the following "inflatable code" is available for the user to re-code.

Inflatable Code

In the standby mode, press and hold the "+" button on the monitor and release it after a beep sound. The system will enter the inflatable code interface, and the LCD current tire icon flashes, showing the "Id" and 6-digit ID code of the current tire. Short press the "-" key to select the tire position that needs to be coded, and then install the sensor on the corresponding tire (external sensor), or install the built-in sensor and then inflate the corresponding tire (built-in sensor). When the sensor senses the inflation, it will alarm with a beep sound and then the ID code of the sensor will be displayed (as shown in the figure below), which indicates that the tire ID code has been aligned. Use the same method to match the code with other sensors. When all the required ID codes have been successfully received, press and hold the "SET" key on the monitor. Release the key after a beep sound, save the ID code to the monitor and exit to normal working state. Press the "-" and "+" keys at the same time to exit to the normal working state without saving the ID code.



For example, the ID code of the left front tire is 83A512.

9. Technical Parameters

Monitor

Working Temperature	-20℃~80℃
Storage Temperature	-30℃~85℃
Voltage	DC 12~24V
Frequency	433.92 MHz
Dimension (L*W*H)	76*50*22 mm
Weight	58g
Pressure Setting Range	15~144 PSI (1.0~9.9 BAR)
Temperature Setting Range	77~212℉ (25~100℃)
Pressure Monitor Range	0~87 PSI (0~6 BAR)
Temperature Monitor Range	-104~176℉ (-40~80℃)

10. The Disclaimer

10.1 Please use this product correctly and use it within its allowable range. If it is used beyond its scope, the company will not be responsible for all the consequences.

10.2 The installation process should strictly follow the instructions of the user instruction. If any damage caused by the installation that does not follow the instructions, the company will not be responsible for the consequences or give any explanation.

10.3 When setting the alarm value, please strictly abide by its range. Different models should be set according to the tire parameters or the manuals, or the range given by the agents or dealers. (Generally, if the system is set up, there is no need to modify it in the future). If there is any product failure caused by self-setting or improper settings, the company does not bear any responsibility for it.

10.4 The content in this instruction will be subject to change without prior notice. The pictures in this instruction are just for illustration. Please refer to the actual product.

10.5 Be sure to ask an experienced tire installation technician to install the product. When you need to disassemble the tire again, please be careful not to damage the sensor.

11. Some Using Tips

Please note that the following conditions are normal in product use.

11.1 The data updating time of the sensor is about 5 minutes. And if you change the sensor to another wheel, the previous data may stay for a while. If the sensor is removed, there will still be data staying on the monitor. It is normal, and it may take up to 2 hours for the monitor to completely disappear after hours of data displayed.

11.2 There will be a slight air leak in the tire after the sensor is installed. It is normal. Please rest assured to use it.

11.3 It is normal for the sensor to be worn and corroded by the external environment. We recommend that you buy extra sensors as backup. When the sensor is abnormal, you can try to solve the problem according to the following instructions. If the problem persists, you can contact us for after-sales service to get the replacement sensor.

---IF THE SENSOR IS NOT IN THE NORMAL OPERATION---

It is recommended to test the sensor first. You could take off the sensor from your tire to see if the machine alarms.

1. If the monitor begins beeping, it means your sensor is in normal operation. Then you could try to re-install the sensor. If it still does not work, maybe the sensor lacks battery power. Then you could try another battery again. And here I would like to provide a change-battery video to help you. The video link is as follows: **https://youtu.be/JXc0sV-jN19Y**

2. If it does not alarm, it may also mean that the sensor lacks battery power. You could try another new battery again. The battery-change video is mentioned above, and you could refer to it.

11.4 It is normal for the tire pressure monitor to measure the tire pressure with a certain degree of accuracy (when you find that its measurement result is different from your tire pressure gauge).

---IF THE DEVICE SEEMS LIKE IT COULD NOT MONITOR THE TIRE PRESSURE ACCURATELY---

If you find the tire pressure that the monitor displays is not accurate, there are two different possible reasons that could explain this issue.

1. The feature of needing some minutes to update the data

Our TPMS will receive real-time signals. In general, the monitor will update every 5 minutes. You could wait for a minute and then confirm if the reading is correct.

2. Different measuring tools may cause some deviation in the normal range (if you use a tire pressure gauge to compare with it). The theory of measurement between two devices is different. Here is the operation theory of the TPMS and of the tire pressure gauge.

The TPMS monitors the tire pressure and temperature referring to their variations per unit time. And the tire pressure gauge monitors the tire pressure by getting the instantaneous data. So it is normal that when you use two different measuring tools, you would get two data which has a little deviation. But these two different data are referenceable.

12. Contact Us

We promise 2-YEAR WARRANTY and 24/7 CONSIDERATE CUSTOMER SERVICE. If you need any help, please contact us via **[tymate@afterservice.vip]** or call <+1(855)492-9277> directly. You can quickly get in touch with the after-sales team by scanning the QR code below. It's also a good choice to contact us by after-sales service official website: **https://tymate.afterservice.vip**

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