

# What is tire pressure sensor? Should I install it in a car?

What is tire pressure sensor? How is it used? How much is the sale price? Read the article of TipsMake.com for specific answers!

Drivers are often advised to install **tire pressure sensors** for their cars. So, what is a tire pressure sensor? How is it used? How to install? Let's TipsMake.com learn more about this device!

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## What is tire pressure sensor?

Tire Pressure Monitoring System (TPMS) is an electronic device designed to monitor tire pressure inside. Typically, 1 car tire pressure sensor will have 4 sensors mounted in 4 tires and 1 display. On the display screen will be full information about pressure, temperature of each tire. When the pressure in the tire changes abruptly or is higher / lower than the preset level, the sensor will notify the driver via audio and visual signals.



Tire pressure sensors help users monitor the pressure inside the tire

Based on the installation location, people divide tire pressure sensor into two main types: internal tire pressure sensor and external tire pressure sensor.

1. **Internal tire pressure sensor:** A type with a sensor head mounted inside the tire, sensor valve instead of the original tire valve. Using this type of sensor, users can be assured, without worrying about theft. However, the installation and repair of internal tire pressure sensors is quite complex, requiring the support of skilled workers and specialized tools.
2. **External tire pressure sensor:** A type with sensor head attached to the valve head of the wheel. The installation and repair of external tire pressure sensor is quite simple and convenient because there is no need to remove the tire or dynamic balance. But because it's mounted on the outside, it's more prone to theft than the internal tire pressure sensor. However, you do not need to worry too much, because many types of external sensors are now equipped with security encryption technology and extremely smart anti-theft warning.

## Should tire pressure sensors be installed in cars?

Tire pressure sensors are becoming more and more popular and widely used. In advanced countries like the US, installing tire pressure sensors for cars is even a must. So why should we equip our car with tire pressure sensors? The following benefits will help us answer this question:

### Limiting traffic accidents, ensuring safety for car users

The pressure inside the wheel is an extremely important factor that drivers need to monitor regularly. If the pressure is not guaranteed, the wheel will be too soft (airless, lack of air) or too tight. In this case, the wheel may explode and cause an accident at any time. Not only that, the pressure at the inappropriate level also affects the performance and stability of the vehicle, increasing fuel consumption and making the driver feel unburdened.

With bicycles and motorcycles, we can easily tell if the wheel is soft or too tight by observing and manipulating it, but with cars it is much harder because its wheels are large and thick . The best way to track automobile wheel

pressure is by using a tire pressure sensor. With this device, you can monitor the inside pressure of the wheel regularly, promptly detect abnormalities, adjust accordingly (for example, removing air when the tire is too tight, inflating the car tires when the tire is too young), thereby limiting the risk of an accident.



Tire explosion - one of the causes of common traffic accidents

### **Helps extend the life of tires**

Tires that are too tight or too young are not only unsafe but also reduce tire life, making them more prone to cracking, wear, and deformation . By using the tire pressure sensor, you can limit the This situation, making the tire more durable, thereby saving repair costs.

It can be seen that the tire pressure sensor not only contributes to safety, limits traffic accidents but also helps tires to be more durable, limiting fuel consumption. Therefore, installing a tire pressure sensor for cars is really necessary.

### **What kind of tire pressure sensor is good?**

On the market today, there are many different types of tire pressure sensors, the most typical of which are the two products: Vietmap V1 car tire pressure sensor and Fobo Tire pressure sensor.

#### **Vietmap V1 car tire pressure sensor**

Vietmap V1 tire pressure sensor is designed and manufactured by Vietmap brand. The product has the following outstanding features:

1. High accuracy: Vietmap V1 owns a German technology Freestyle processor and sensor valve that connects wirelessly to the screen via 433.92Hz frequency. Thanks to that, it can help users track

information about temperature, tire pressure in real time quickly and accurately.

2. There is a function to issue alerts when tire pressure / temperature is low or higher than the allowed level.
3. Owing sharp LCD screen, helping users to observe parameters more easily.
4. Long battery life, can last from 7 to 15 days. Not only that, with solar panels, the product can self-supply power to maintain operation.
5. Allows users to manually set the alarm threshold as desired and reverse the valve on the controller.
6. Good weather resistance: With high-quality materials and IP67 water resistance, Vietmap V1 can work well under all weather conditions, including rain, heat or mud.

Currently, Vietmap V1 tire pressure sensor is being sold for about VND 1,990,000 - VND 2,500,000.



Vietmap V1 car tire pressure sensor

## **Fobo Tire pressure sensor**

Fobo Tire is one of the most popular tire pressure sensors today thanks to its outstanding advantages such as:

1. Can help users monitor tire pressure and temperature both day and night. Not only that, it also has the ability to issue alerts when the pressure is low or too high for you to adjust accordingly soon.
2. With bluetooth 4.0 technology, the sensor can work directly with smart watch devices, smartphones running Android and iOS operating systems. By installing the Fobo Tire app on your smartphone, you can track the tire pressure of 19 cars at once.
3. Fobo Tire tire pressure sensor has excellent shock and water resistance so users can feel secure when traveling on all terrain, in all weather conditions.
4. Simple installation: Fobo Tire is an external tire pressure sensor so installation is extremely simple. You can install it yourself without the help of a professional or specialized tools.
5. No worry about theft: When using Fobo Tire, you can be assured, not worry about theft, whether it is an external sensor type. Because, each set of products is equipped with 6 anti-theft screws and 2 small spanner for keychains. In case the sensor shows signs of hardware theft, you will immediately receive a warning from the Fobo Tire app. Even in the event that the sensor hardware is accidentally stolen, the crook cannot reuse it because each sensor is encrypted by the user's email, so only the owner can use it.

On the market, currently the product is being sold at a price of about VND 2,990,000 - VND 3,590,000.



Fobo Tire pressure sensor

## How to install and install the tire pressure sensor on a Fobo Tire car

To install and install the Fobo Tire tire pressure sensor successfully, you can refer to the instructions below:

**Step 1:** Go to the App Store on your phone, find the Fobo Tire software and press the install button.

**Step 2:** After the phone informs that Fobo Tire installation is successful, press the open button. At this point, on the phone screen will open a new window, you need to login your email to.

**Step 3:** Check your email, you will receive an email sent by Fobo Admin. You need to click on the link inside the email to activate your account.

**Step 4:** Once the account is activated, the phone screen will open a new window. To start installing the software, you need:

1. Click the '+' in the corner of the screen, a message will appear.
2. Remove the battery of the controller.
3. Hold down the open button on the controller for about 10 seconds and press the 'OK' button on the phone screen to show 'In Car ID'.
4. On the 'Enter Car Name' tab, enter your car's name.
5. Click on 'Tap To Take Picture' and take a picture of your car.
6. Click the 'Pressure Unit' and 'Temperature Unit' tabs to select the tire pressure and temperature measuring unit. Typically, people often choose the unit of pressure (Pressure Unit) is the bar, the unit of temperature (Temperature Unit) is degrees Celsius.
7. Click 'Done' at the top of the screen to complete the setup.

**Step 5:** On the phone screen appears a message instructing you how to install the sensors (Sensors). You just need to fit the sensors into the van in the order that the message says. After installing a sensor, press the OK

button on the phone screen and continue to install other sensors.

**Step 6:** After installing 4 sensors for 4 tires, the phone screen will display a window indicating the installation is completed, click 'OK' to confirm. At this point, the phone screen will display information about the temperature, pressure of the tires.

In case you do not carry your phone, you just need to press the open button on the controller to see if there are any small cakes or not. If a wheel is a little air, the corresponding indicator light on the controller will light up and a buzzer will sound. In addition, this controller also has signal amplification function.

Hopefully our sharing will help you understand what a tire pressure sensor is, how it works and how to install a tire pressure sensor. Thank you for your interest and follow up the article.

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