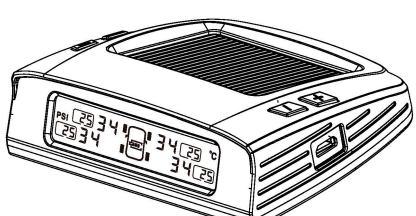
Tymate

Tire Pressure Monitoring System

User Manual

Model No. M7-3



Implementation Standard: GB26149-2017

Contents

1. Product Introduction ---------- 01
2. Monitor Feature ---------- 02
3. Installation Tips ---------- 02
4. Product Accessories ---------- 03
5. Parameter Settings ---------- 04
   5-1 Factory Default ---------- 04
   5-2. Setting Sequence ---------- 04
6. Alert Condition ---------- 06
   6-1. High Pressure Alert ---------- 06
   6-2. Low Pressure Alert ---------- 06
   6-3. High Temperature Alert ---------- 07
   6-4. Fast Leakage Alert ---------- 07
   6-5. Sensor Low Battery Alert ---------- 07
7. Other Functions ---------- 08
8. Recode Sensors ---------- 09
9. Monitor Specifications ---------- 09
10. Friendly Reminder ---------- 10
11. Get Help ---------- 10

1.Product Introduction

1-1. Product Feature

Thanks for choosing our TPMS product. The sysetm is used to detect the pressure and temperature in the tire. After the alarming condition is set up by the user, the system will alarm under the situations of abnormal pressure and temperature and warn the driver of dangerous driving. The system also enhance the efficiency of fuel, prolong the lifespan of the tire and make the driving more comfortable.

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

1-2. 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 normal driving.

2. The monitor should be well fixed to avoid falling off while driving.

3. The tires temperature and pressure will increase while driving. The vehicle should be stopped for cooling if there is high temperature alarm to avoid braking problem or tire blowout.

4. Driver should stop the vehicle and get off to check the tire if the high pressure or slow leakage alarm still rings.

5. Be aware of tire blowout if the tire pressure is a high and pay attention to fuel consumption and wheel balance under the situation of low tire pressure.

6. The system can effectively detect tire pressure and temperature but cannot avoid traffic accident after tire brow out. It is still necessary to use high quality tire product and correct tire pressure monitoring.

7.Pay attention to driving safety when you check the data while driving.

8.After the system is installed correctly, the driver does not need to stare at the monitor all the time or feel distracted while driving.

1-3. Installation Tips

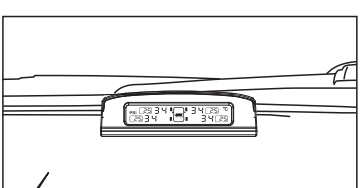
1. The monitor will be in sleeping mode to save battery lifespan if the motion sensor detects the vehicle has stopped for ten minutes. It will turn on again when it detects the vehicle is moving again. If one of the sensor data has not been displayed on the monitor at the beginning, the data will be displayed later when there is any change of the pressure or temperature in the tires.
2. The signal transmission from the monitor to sensors is wireless, and the transmission distance is long enough for normal use in a car. And it is designed with internal anti-intereference circuit.
3. Due to the air expansion and contraction, the tire pressure and temperature will normally change all the time while driving
4. There is normal air leakage in the rim of every tire. The tire pressure will be changed after long-time storage or driving.
5. When encoding the sensor for the first time, please turn on the power of the monitor first, and then install the sensor on the tire for encoding.
6. Should you have any question or problem while installation, please contact with your local distributor.

2. Monitor Feature

- Automatically solar power battery recharger
- Pressure and temperature alarm
- Display and sound prompt alarm
- Mutiple pressure unit options (PSI, BAR)
- Mutiple temperature unit options(°C, °F)
- Configurable high/low pressure and high temperature alarm
- Tire position exchange
- Automatic wake-up function
- Automatic backlight
- Built-in rechargeable lithium battery
- Detect up to 7 tires (including one spare tire)
- Display temperature and pressure simultaneously
- Fast leakage alert
- High stability and easy installation

3. Installation Tips

Monitor should be installed in an appropriate place using the sticky pad or the magic tape. Charge the monitor by the DC-DC power adaptor for the first time and allow continual recharge by solar power after the first full DC charge.

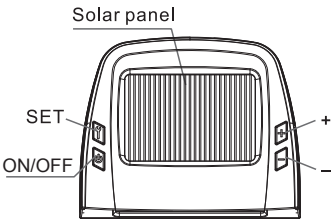


Caution:

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 while driving.
3. Pay attention to driving safety when you check the data while driving.
4. After the system is installed correctly, the driver does not need to stare at the monitor all the time and feel distracted while driving.

4. Product Accessories

Monitor Components and Icons





Multiple Pressure Unit option: BAR or PSI
Multiple Temperature Unit option: ℃ or °F

Icon	Indication
	Tire Position
	Low Volatge of the Sensor Battery
	Monitor Power level
	Tire Alarm Status
	Solar Power Indicator

5. Parameters Settings

In standby mode, press the “SET” button, release after the 1st beep to enter the 1st set up menu. The corresponding icon on the LCD will flash. Press the “SET” button to select the desired setting, press button “+” or ”-” to select the data. After the setting is finished, press the “SET” button to save the setting and exit after a beep. Press the button “+” and ”SET” at the same time to exit without saving the setting. The monitor will return to standby mode if there is no operation within 1min in the setting mode.

5-1.Factory default alarm setting

Pressure unit	PSI (BAR)
High pressure	44PSI (3.0BAR)
Low pressure	29PSI (2.0BAR)
Temperature unit	℃ (℉)
High temperature	70 ℃ (158℉)

To restore the factory default setting:

First turn off the monitor by pressing “ ⏻ ” ,then turn on the monitor again until all icons displayed and press the button “SET” within 3 seconds, release after a “Bi” sound and red backlight will light to complete factory reset.

Monitor Power on / off

Driver could turn off the monitor manually before long time parking.
When the monitor is power off, press the “ ⏻ ” button, release after the first beep to turn on the monitor. Repeat same step to turn off the monitor.
The monitor will turn off automatically when the power is too low.

5-2.Setting Sequence

① Pressure Unit
While the PSI or BAR icon is flashing, press the button “+” or ”-” to select the desired unit.

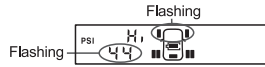


② Temperature Unit
While the ℃ or °F icon is flashing, press the button ”+” or ” -” to select the desired unit.



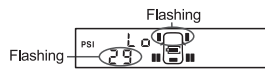
③ High Pressure Setting for Front Tires

While the two front tire icons and the high pressure data icons are flashing, press the button "+" or "-" to select the desired pressure data.



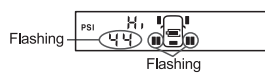
④ Low Pressure Setting for Front Tires

While the two front tire icons and the low pressure data icons are flashing , press the button "+" or "-" to select the desired pressure data.



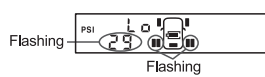
⑤High Pressure Setting for Rear Tires

While the four rear tire icons and the high pressure data icons are flashing, press the button "+" or "-" to select the desired pressure data.



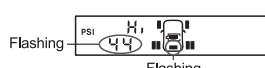
⑥Low Pressure Setting for Rear Tires

While the four rear tire icons and the low pressure data icons are flashing, press the button "+" or "-" to select the desired pressure data.



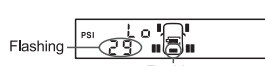
⑦High Pressure Setting for Spare Tire

While the spare tire and the high pressure data icons are flashing, press the button "+" or "-" to select the desired pressure data.



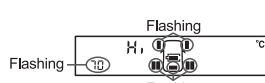
⑧Low Pressure Setting for Spare Tire

While the spare tire and the low pressure data icons are flashing, press the button "+" or "-" to select the desired pressure data.



⑨High Temperature Setting

While the high temperature data and all tire icons are flashing, press the button "+" or "-" to set the desired temperature data.



6. Alert Condition

High Pressure Alert/ Low Pressure Alert/ High Temperature Alert/ Fast Leakage Alert / Low Voltage Alert of Sensor Battery

The monitor displays the temperature and the pressure data of four sensors simultaneously. The corresponding alert icon and red LED will flash together with a warning beep when the sensor detects abnormal conditions from the tire. The faulty tire and/or battery alarm (,) icons will still flash until the problem has been settled.

If you want to turn off the alarm, there are three ways:

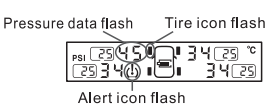
1) Handle the abnormal situation of the tire in time.
2) Long press the**"SET"**button, the alarm will stop and enter the setting page. Long press the**"SET"**button again, the machine will exit the setting page, and the alert will not sound for the time being.
3) Press the**"Power ON/OFF"** button and the alarm will disappear.

Eg. Factory default

High pressure alert level	3.0BAR (44PSI)
Low pressure alert level	2.0BAR (29PSI)
High temperature alert level	70 ℃ (158℉)

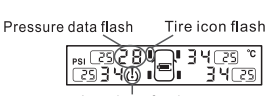
6-1.High Pressure Alert

e. g. While the front left tire pressure is 45PSI, the monitor will make a sound "beep", and the red LED will flash.



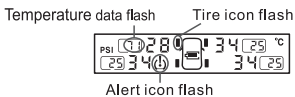
6-2.Low Pressure Alert

e. g. While the front left tire pressure is 28PSI, the monitor will make a sound "beep", and the red LED will flash.



6-3.High Temperature Alert

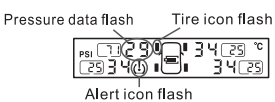
e.g. While the front left tire temperature is 71℃, the monitor will alert together with a warning beep, and the red LED will flash.



6-4.Fast Leakage Alert

The sensor will send alert data to the monitor if it detects fast leakage in a tire. The alert icon and the pressure data will flash together with the tire icon. The flashing red LED and a warning beep will be issued by the monitor simultaneously. Press any button to turn off the beep warning. But the alert tire icon and the pressure data will still flash together with the red LED till the problem has been solved.

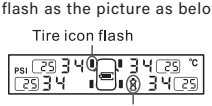
e.g. While the front left tire pressure drops from 34PSI to 29PSI immediately, the monitor will alert as the picture below:



6-5.Sensor Low Battery Alert

While the sensor battery voltage is low, the sensor will send the alert to the monitor,The corresponding tire icon and the low battery icon will flash together with the red LED, the warning beep will be issued by the monitor. Press any button to turn off the warning beep, but the tire icon and the low battery icon will still flash together with the red LED till a new sensor battery has been replaced.

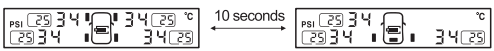
e.g. While the battery in the front left tire sensor is low, the sensor low battery icon on the monitor will flash as the picture as below.



7. Other Functions

7-1.Monitor Displays 7 Tires

7 Sensors(Spare tires): displayed as below



7-2.Monitor Battery Saving Mode

The monitor will be in sleeping mode when the vehicle is not in motion for 10 minutes or when external DC power is not connected. The monitor will not receive any data from the sensors. Press any button to wake up the monitor to standby mode.

7-3.Charging the Monitor

The solar power battery was built inside the monitor and it can power the monitor for long time once fully charged. But the solar battery will not recharge itself when there is insufficient sunshine. In such case, when the battery level indicator is low as show by the icon( ), please recharge it with factory provided DC charger for 2.5 hours and continually recharge it by sufficient sunlight when the icon( )is displayed.

7-4 Tire ID Interchange(Tire Position Exchange)

During standby mode, long press **"-"** until **"beep"** sound begins and then, one tire will flash and use **"+"** or **"-"** to exchange to a new tire position and confirm by pressing **"SET"** button. Repeat using**"-"** to choose another tire and follow by using **"+"** or **"-"** button to exchange another new tire and finished by pressing **"SET"** button again after a long beep. (During ID interchange there is no action for one minute, system will resume to normal mode operation.)

8. Recode Sensors (the process of connecting the monitor and the sensor)

The factory has already coded 4 sensors to the monitor, and the sensors can be re-coded accordingly to actual tires' positions after exchanging the tires. There an inflate code learning for re-coding the sensors.

Inflate Code Learnings

In standby mode, press and hold **"+"** button and release it after the beep sound to enter learning mode. The tire icon will flash on the LCD with **"Id"** letter showing the beginning letter of the tire ID code. Short press **"-"** or **"+"** to scroll tire position needed to re-code. Once ready, mount the sensor on to the tire valve(for external sensor),or inflate the tire(for internal sensor), once the sensor sensed the inflator, the sensor will send its own ID code to the monitor and the monitor will display it's sensor codeafter the beep sound. Repeat above steps to re-code other sensors if needed. Press **"SET"** until beep sound to ensure new code completed stored into the monitor. If press **"+"** and **"SET"** buttons together will not store any new ID and resume to standby mode.

Example of tire icon flashing



Left Front Tire ID as 83A512

9. Monitor Specifications

Pressure setting range	1.0 ~ 9.9BAR(16 ~ 99PSI)
Pressure monitor range	0~9.9BAR(0~99PSI)
Working temperature	-20℃ ~ 80℃
Storage temperature	-30℃ ~ 85℃
Output voltage/current	DC 5V/1A
Temperature setting range	-25℃ ~ 93℃ (77 ℉ ~ 199℉)
Frequency	433.92 MHz
Size	87 (L) * 72 (W) * 25 (H)mm
Weight	84 g
Type of sensor battery	CR 1632

10. Friendly Reminder

(1) Please use the system correctly. Distributors are not liable for damages caused by misuse.
(2) Installation should follow the instruction guide, if any damage occurs due to the wrong installation, the distributor is not liable for it.
(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) Please be careful not to damage the sensor during tire removal.

11.Get Help

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

1. The data update 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 display. This is normal, and it may take up to 2 hours for the display to completely disappear after hours of data display.

2. There will be a slight air leak in the tire after the sensor is installed. This is a normal phenomenon, please use it with confidence.

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. Then when the sensor is abnormal, you can try to solve the problem according to the following instructions. If the problem is still not solved, you can contact us for after-sales service to get the replacement sensor.

--- IF THE SENSOR IS NOT WORKING ---

We advise you to test the sensor firstly.
You could take off the sensor from your tire to see if the machine alarms.
1) If the monitor begins to beep, it means your sensor is in normal operation. So you could try to re-install the sensor again.
If it still does not work, maybe the sensor is lack of battery power.
You could try another battery again. And here we would like to provide a change-battery video to help you.
The video link: **https://youtu.be/JXc0sVjN19Y**
2)Or if it does not alarm, it also may mean that your sensor is lack of battery power. You could try another new battery again.
The battery-change video is mentioned above, and you could refer to it.

4. It is normal for the tire pressure monitor to measure the tire pressure with a certain degree of accuracy. (If 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 on the monitor is not displayed accurately, 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 display will update every 5 minutes. You could wait 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).

The theory of measure 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 the temperature referring to their variation per unit time. And the tire pressure gauge will monitor 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 the two different data all are referencable.

--- THE DISTANCE AND THE INTERFERENCE ---

Generally speaking, the signal transmission distance of the sensor is no more than 36ft. If you have a repeater, the signal transmission distance will be extended to 45ft or more. However, the signal transmission will be blocked by objects and electromagnetic field interference, so the signal transmission stability and the specific transmit distance between your monitor and the sensor are determined by the actual situation on your vehicle. If you find that the signal transmission of the sensor is unstable, then it may be that the length of your vehicle has exceeded the original transmission distance of the sensor, or there are too many interference sources in your vehicle. If the signal from the sensor cannot be transmitted to the monitor, or the signal transmitted by the sensor is unstable, we recommend that you purchase a repeater or other repeater models of the Tymate.

--- IF YOU ENCOUNTER ANY OTHER PROBLEMS ---

Please don't hesitate to contact **< tymate@afterservice.vip>** or call <+1(855)492-9277>. It's also a good choice to contact us by after-sales service official website: **https://tymate.afterservice.vip.** You can quickly get in touch with the after-sales team by scanning the QR code below. We are always ready to help you with all your problems!

Support Mail:
tymate@afterservice.vip

VIP Extended Warranty
24h Online Service

https://tymate.afterservice.vip

+ 1(855)-492-9277
[EST 9am-5pm Monday through Friday]

Website

www.tymate-tech.com