Manuals+ — User Manuals Simplified.

MIRAIDON M05 RV Tire Pressure Monitoring System User Manual

MIRAIDON

Wireless Tire Pressure Monitoring System
Users' Manual
Item No.: MOS

Contents

M05 RV Tire Pressure Monitoring System

Thank you for choosing MIRAIDON
If you encounter any situation during installation and use, please feel free to contact us, we can here just for you.
The MIRAIDON Team.
Email: **support@miraidon.net**

Products Specification

- Large LCD display
- Displays up to 14 tires simultaneously
- Built-in rechargeable battery
- Solar power supply
- Visible and audible alerts
- Automatic back-light
- Motion sensor inside
- Set each axle individually
- Delete tractor or trailer manually
- Multiple methods to match sensor supported
- Stable signal transmission
- Pressure unit select-able(PSI / BAR)
- Temperature Unit select-able (C/ F)

Sensor

- Anti-theft sensor
- Waterproof and dust-proof
- Battery replaceable
- Each sensor has individual ID
- High sensitivity

- Long transmission distance

Signal Booster

- Enlarge signal on long vehicles
- Audible and red LED alerts
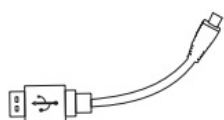- Store trailer and sensors' ID

System Components

Item	Q' ty	Item	Q' ty
Monitor	1 PCS	Installation Wrench	1 PCS
Charging Cable	1 PCS	Signal Booster/ Repeater	(Optional Part)
Sensor	Depends on tire Q'ty	Installation Wrench	Same as sensor quantity
Suction Cup	1 PCS	Installation Wrench	Same as sensor quantity

System Components
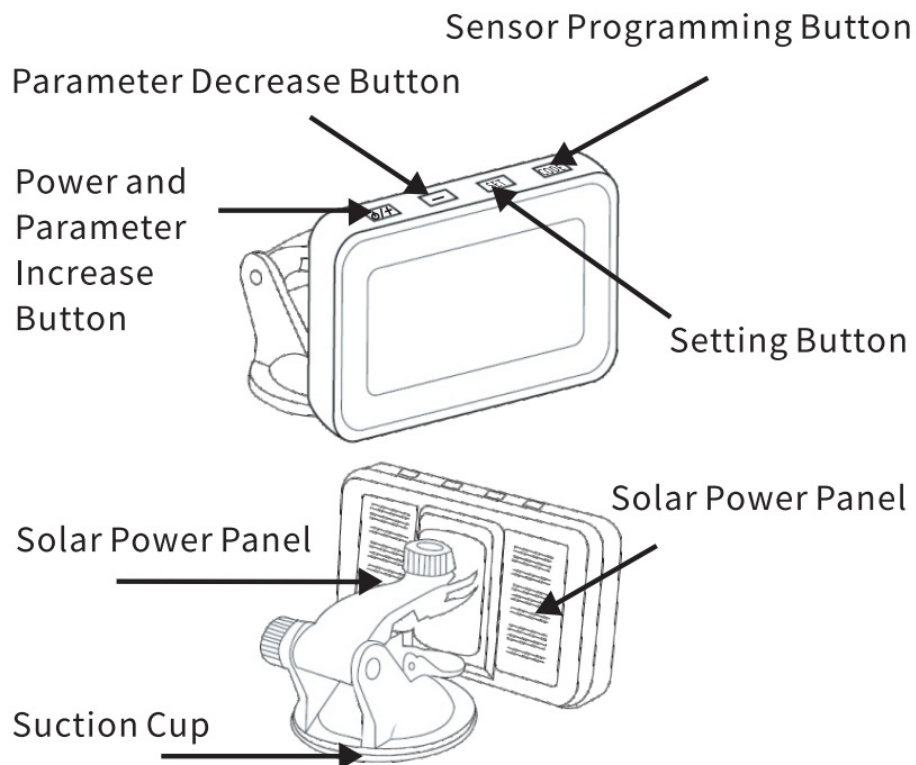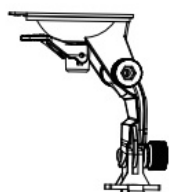
Suction Cup   Charging Cable   Repeater/Booster(Optionalpart)

Sensor   Anti-theft Lock Nut

Waterproof O-ring   Installation Wrench

LCD Icon Description

LCD Icon	Description
	Tire Icon
	Sensor Battery Low Indicator
	Monitor Battery Power Level Indicator
	Solar Power Charging Indication
	Alert Indication
	Signal Booster/Repeater Indication

System Installation

1. **Monitor Installation**

   Please place the monitor on dashboard or wind screen where does not block driver's vision and make sure it would not fall off during driving. Please charge the monitor with the 5V power cable provided for the first time usage. The battery icon flash until it is fully charged.

2. **Signal Booster Installation**

   Signal booster/repeater could be installed in the middle of the vehicle or near the rear lamp where there is DC12-24V power connection. When the booster power is correctly connect, it will start to transmit signals automatically, you will see a displays on monitor screen which is means the repeater is working.

Signal Booster | 2A Fuse | 12~24V Power(-)Black
12~24V Power(+)Red
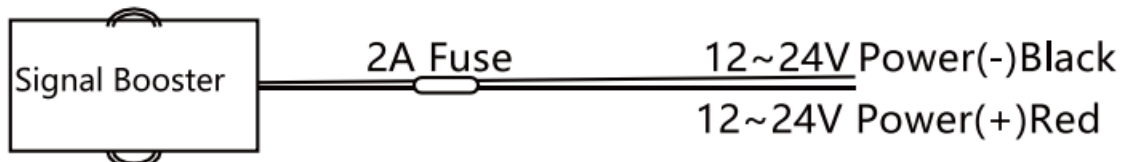
3. **Sensor Installation**

   NOTE:

   l. Please match the sensors with monitor according to the monitor users' manual before installation.

   2.Label the sensors with the number sticker provided in accessories pack according to the instruction below.

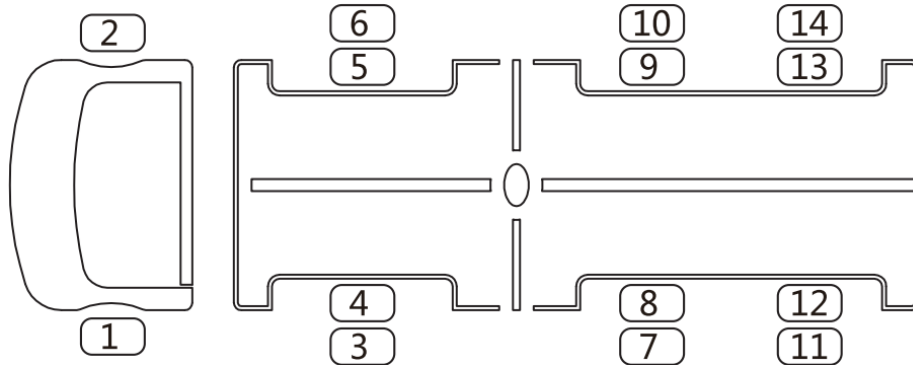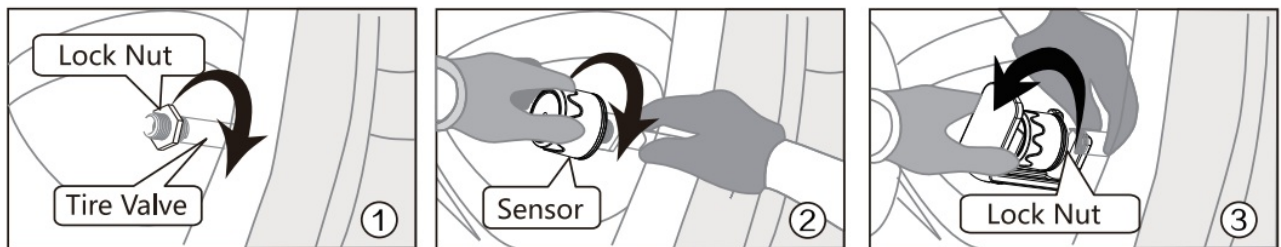   3. There will be alert on monitor when the sensor is low battery. Please replace a new CR1632 battery for safety driving.

   4.Test the sensors with soap bubbles after installation to check if there is **leakage.**

   NOTE: Please turn on the monitor before sensor installation for swift signal transmission.

   Install the sensor onto tire valve ①

   Tighten the sensor onto tire valve clockwise ②

   Tighten the lock nut onto the sensor anticlockwise ③

4. **Battery Replacement**

   1. Use the wrench provided to put on the sensor valve as below. Then screw off the sensor valve anticlockwise and open the battery cap.
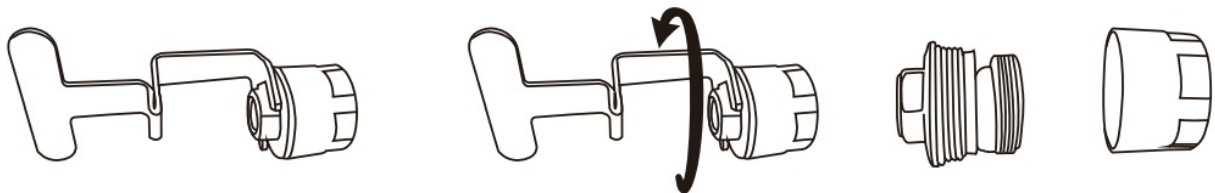
   2.Take out the battery from battery pool.

   3. Install a new CR1632 battery inside the battery pool, make sure positive pole upside.
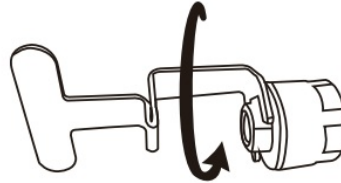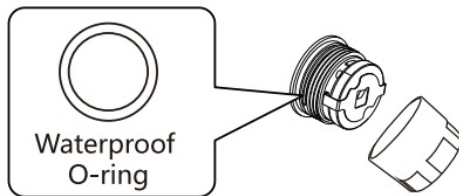
"-" pole
CR1632 lithium metal battery

"+" pole
CR1632 lithium metal battery

4. Put back the battery cap and tighten the cap with the wrench clockwise.

NOTE: Replace a new waterproof 0-ring from the accessory pack if it's broken.

Waterproof O-ring

Factory De fault

The system has been set up in factory as the following parameter, but user could still set the alert parameter according to vehicle actual usage and condition.

Pressure Unit	PSI	BAR or PSI select-able
Temperature Unit	c	C or F select-able
High Pressure Alert	174 PSI (12 BAR)	Adjustable
Low Pressure Alert	30PSI (2.1 BAR)	Adjustable
High Temperature Alert	70°C(158°F)	Adjustable

Parameter Settings

The following settings are in sequence as below:

1. Pressure Unit Setting (BAR/PSI)
2. Temperature Unit Setting ("C/F)
3. High Pressure Alert setting on 1 Ale
4. Low Pressure Alert setting on 1 Ale
5. High Pressure Alert setting on 2″ Ale
6. Low Pressure Alert setting on 2″ Ale
7. High Pressure Alert setting on 3″ and 4″Ale
8. Low Pressure Alert setting on 3″ and 4″ Ale
9. High Temperature Alert

Setting steps are as below:
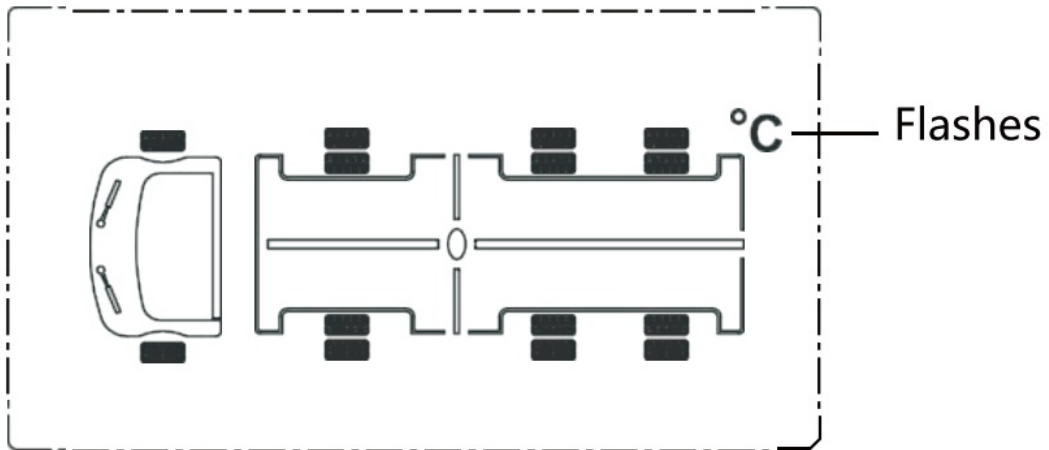
1. **Pressure Unit Setting (BAR/PSI)**
   1. In standby working mode, hold and press SET button, release after a beep, current pressure unit **"PSI" or**

"BAR" will flash. b) Shortly press button **"+" or "."** to select the desired unit.
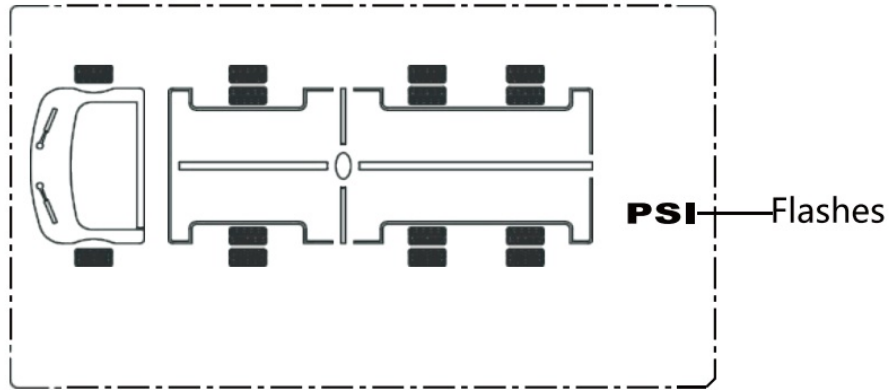
2. **Temperature Unit Setting (C/F)**

   a) After pressure unit setting, shortly press button SET to enter temperature setting. Current temperature unit flashes as below. Press button "+" or "." to select the desired unit.

3. **High Pressure Alert setting on 1 Ale**

   a) After temperature unit setting, shortly press button "SET" to enter High Pressure Alert setting on 1 st Axle. The 1 st axle tire icon flashes as below.
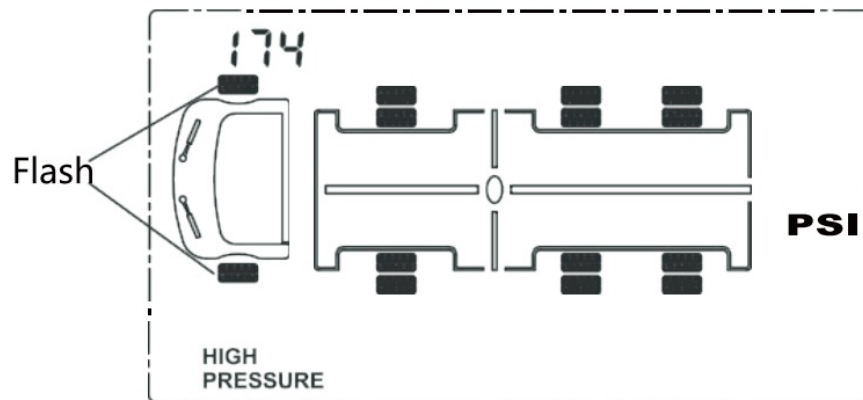
   b) Shortly press button "+" or "" to select the desired alert parameter.

4. **Low Pressure Alert setting on 1st Axle**

   a) After setting High Pressure Alert setting on 1 Ale, shortly press button "SET" to enter Low Pressure Alert setting on 1 Ale. The first axle tires flash as below.
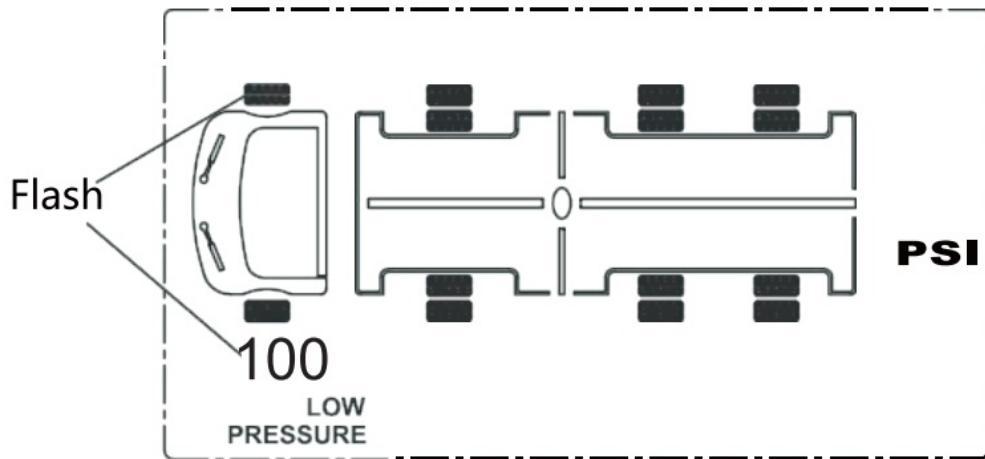
b) Shortly press button parameter. "±" or to select the desired alert

5. **High Pressure Alert setting on 2nd Axle**

a) After setting Low Pressure Alert setting on 1 Ale, shortly press button **"SET"** to enter High Pressure Alert setting on **2nd** Ale. The 2″axle tire icon flashes as below.

b) Shortly press button parameter. "+" or "-" to select the desired alert

6. **Low Pressure Alert setting on 2ndAxle**

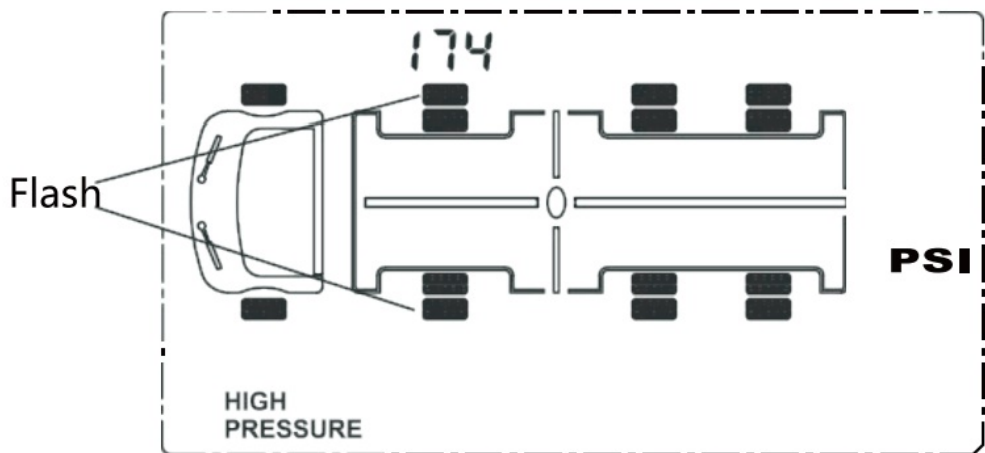a) After setting High Pressure Alert setting on 2″ Ale, shortly press button SET to enter Low Pressure Alert setting on 2″ Ale. The 2n axle tire icon flashes as below.

b) Shortly press button parameter. "+" or"-" to select the desired alert
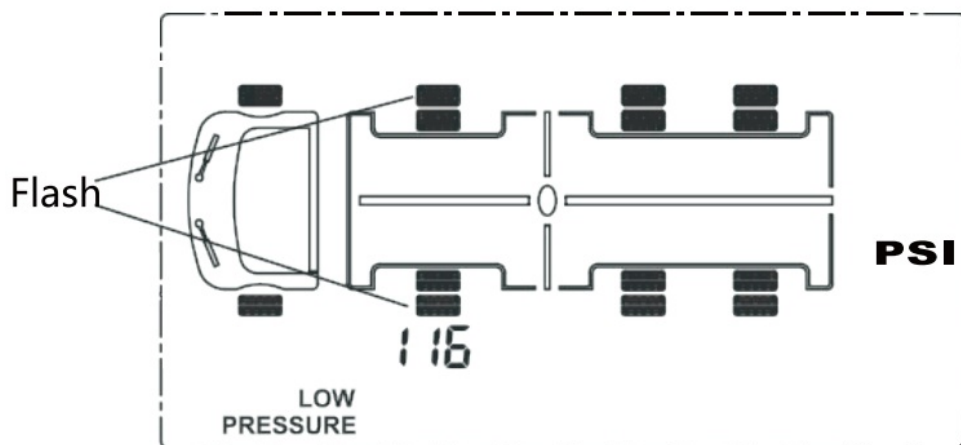
7. **High Pressure Alert setting on 3rd and 4thAxle**

a) After setting High Pressure Alert setting on 2 nd Axle, press button SET for 1 second to enter High Pressure Alert setting on 3rd and 4th Axle. The 3and 4th axle tire icon flashness below.

HIGH PRESSURE

b)Shortly press button "+" or "-" to select the sired alert parameter.

8. **Low Pressure Alert setting on 3rd and 4th Axle**
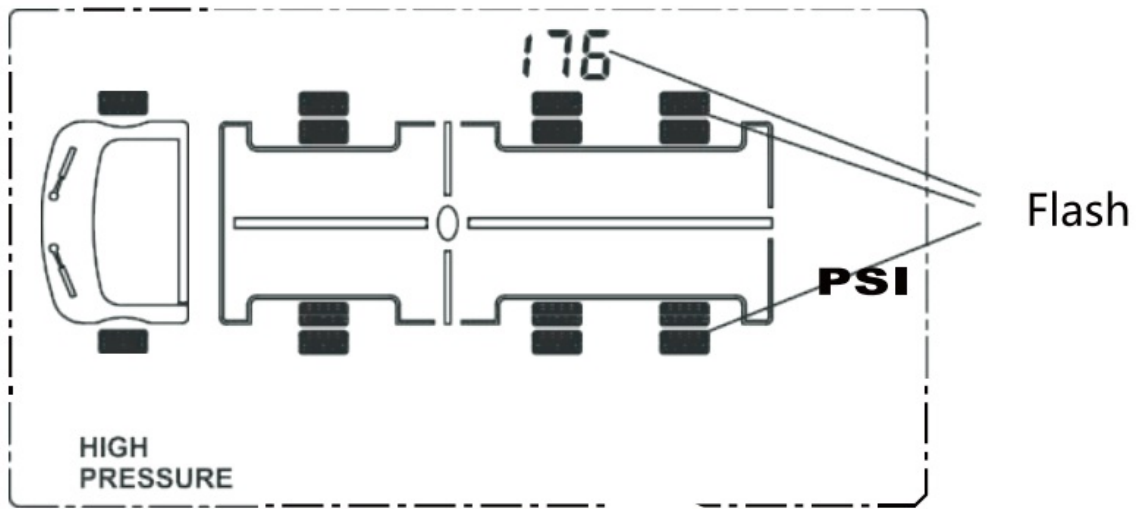
a) After setting High Pressure Alert setting on 3rd and 4th Ale, Shortly press button SET to enter Low Pressure Alert setting on 3″ and 4t Ale. The 3″ and 4″ axle tire icon flashes as below.

LOW PRESSURE
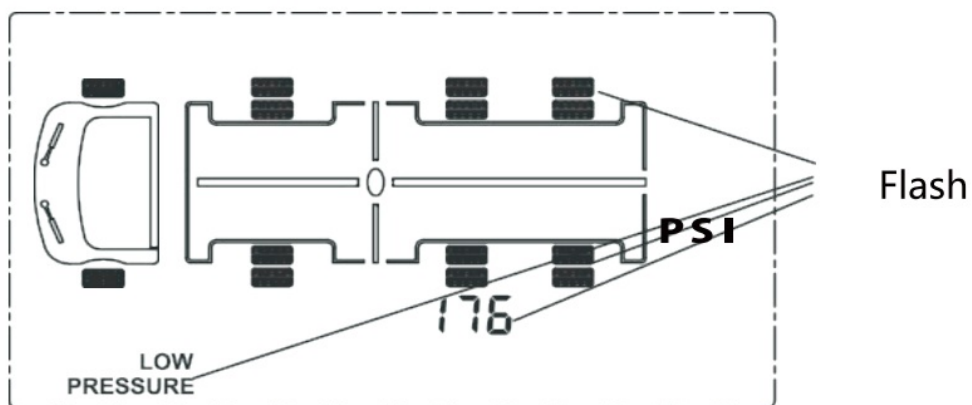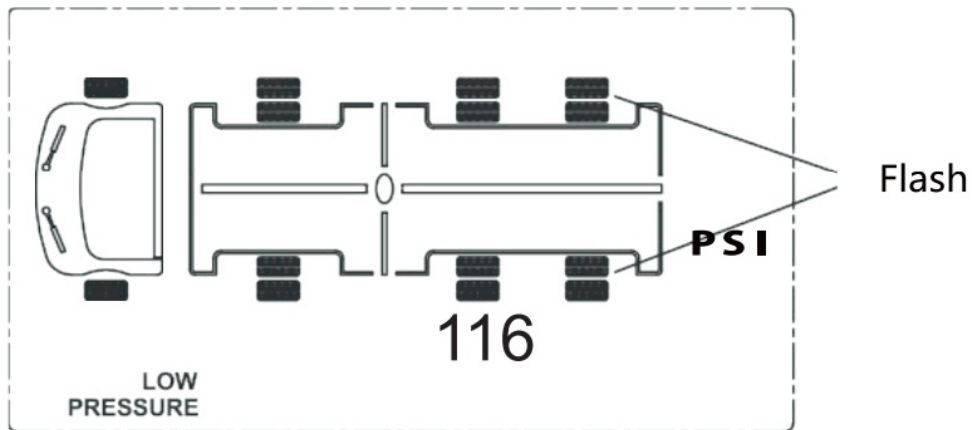
LOW PRESSURE

b)Shortly press button +" or "-" to select the desired alert parameter.

9. **High Temperature Alert Setting**

a) After setting Low Pressure Alert setting on 3rd and 4th Axle, shortly press button SET to enter High Temperature Alert setting, The current high temperature alert data flashes as below .
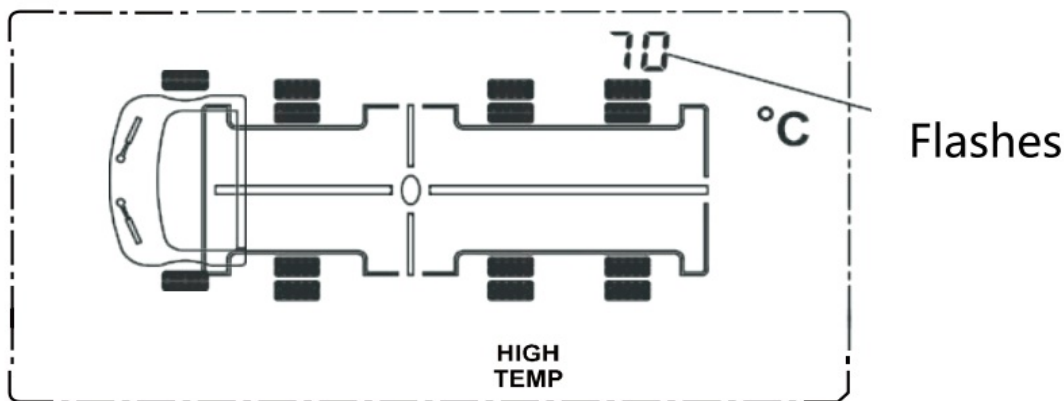
b) After entering the setting, Press button "+" or " " to select the desired alert parameter.

c) Shortly press button **SET** to the next setting.

Or hold and press button **SET** for about 3 seconds, release after a beep to save the settings into memory.

Sensor Programming

1. **Program Sensor by Tire Inflation**

   In standby mode, press button CODE for 3 seconds, release after a beep. The left front icon on 1 st axle and a "-" next to the tire flash as below. Press button "+" or "-" to select the desired tire.
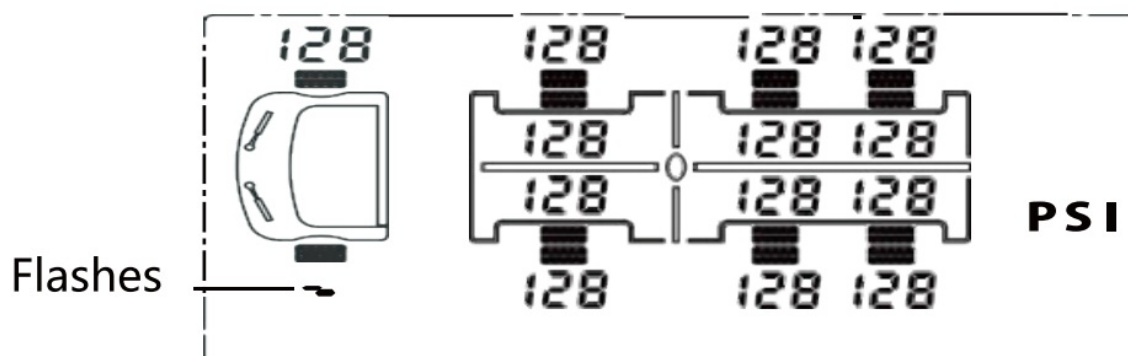
   Inflate the tire for internal sensor. For external sensor, just need to take off the sensor then install the sensor on tire tire valve.

   While monitor receives the sensor' s code, monitor will issue a beep and display the current tire pressure and temperature. Press button "-" to select the next tire.

   Monitor will issue a double beep if the operation failed, please repeat the above steps until monitor displays tire pressure and temperature. After all the desired sensors have been programmed, hold and press button CODE, release after a beep to store the sensors ID into memory.

   NOTE: The system will return to standby working mode after 30min if there is no future operation during programming

2. **Table Top Programming (Easiest Way)**

   In standby mode, press button CODE for 3 seconds, release after a beep. The left front icon on 1 st axle and a "." next to the tire flash, then pressure button CODE for 1 second, there will be a "LF" displays on monitor as below. Press button "+" or "-" to select the desired tire.
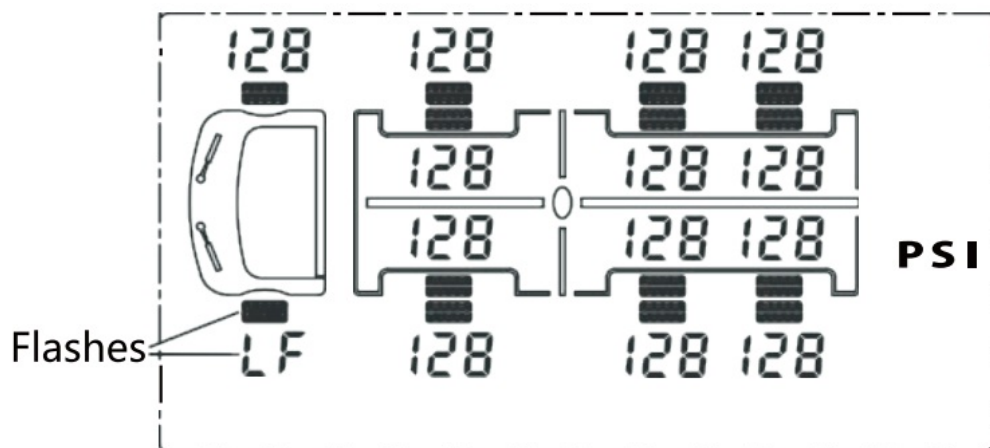
Flashes — LF

While monitor receives the sensor' s code, monitor will issue beep and display the current tire pressure and temperature. Press button " to select the next tire.

There will be an "Err" displayed if the operation failed, please repeat the above steps until monitor displays the desired tire pressure and temperature.

The system will return to Inflation Sensor Mode if LF mode filed after 1 Oes.

NOTE: Please put the sensor under the middle of the monitor while matching sensor by LF.

3. **Delete a Sensor ID Manually**

When the monitor is in normal working mode, hold and press button CODE, release after a beep. Then shortly press button "+"or"-" to select the desired tire. The tire you have selected will be flashing. Hold and Press button SET for about 3 seconds to delete the chosen tire ID. There will be two blank bars "__"appears by the tire side. That sensor ID has been deleted.
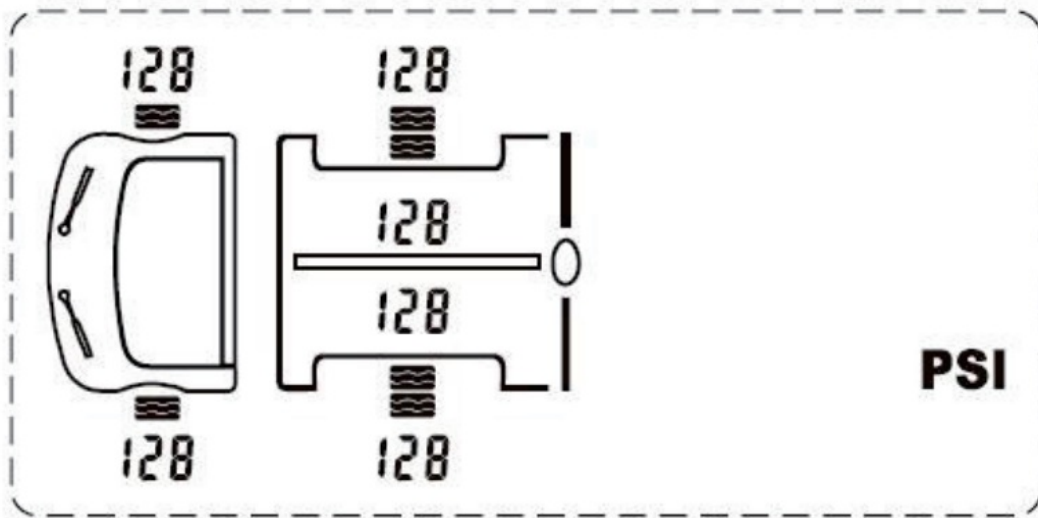

Flashes — - -
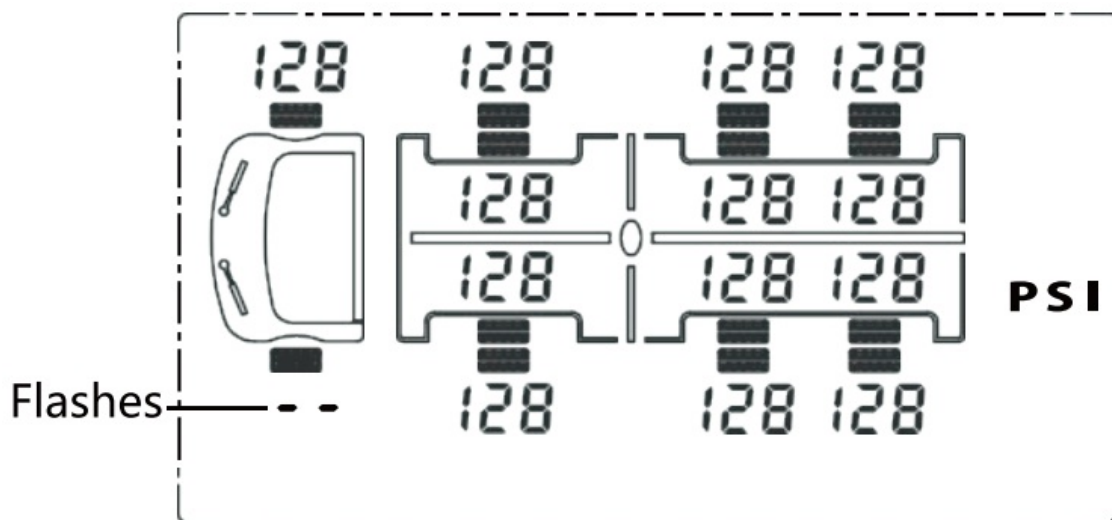
Hold and press button **CODE,** release after a beep to store the setting and return to standby working mode.

Hide/ Show Trailer

1. **Hide Trailer**

In normal working mode, shortly press button **SET** and simultaneously to hide trailer as below.

2. **Show Trailer**

To recover the trailer, shortly press button SET and "+" simultaneously to show the trailer.

Alerts

The system alert has been set up in factory. (Please refer to Page 4 for details alert data.) There will be audible and visible alert on monitor while there is high/low pressure alert, high temperature alert, fast/slow leakage alert. Press any button to turn off the beeps, but the alert icons on monitor will be on till the problem has been solved.

1. **High Pressure Alert (Factory Default: 174PSI)**

E.g.: While the left tire on 1axle is 177PSI, the corresponding tire icon, tire data, and alert icon flash together with a continuous beep.
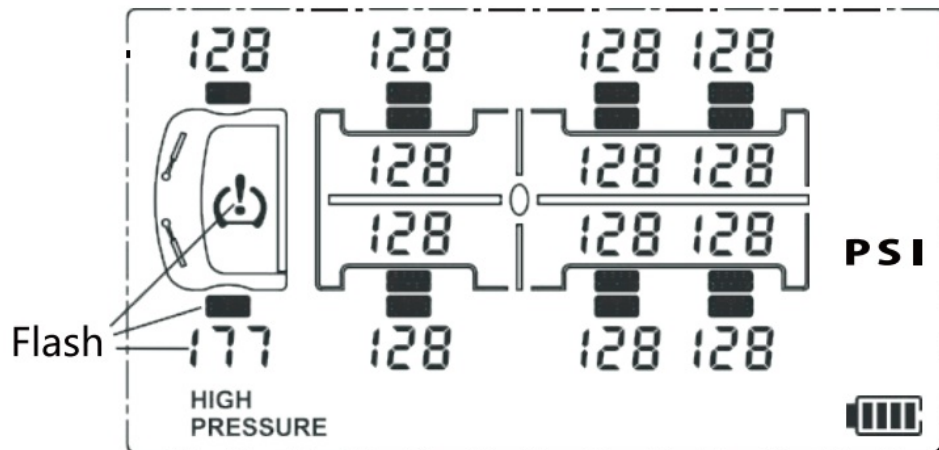
2. **Low Pressure Alert (Factory Default: 30PSI)**

E.g. : While the left tire on 1 axle is 113PSI, the corresponding tire icon, tire data, and alert icon flash together with a continuous beep.

3. High Temperature Alert (Factory Default: 70C/158F)

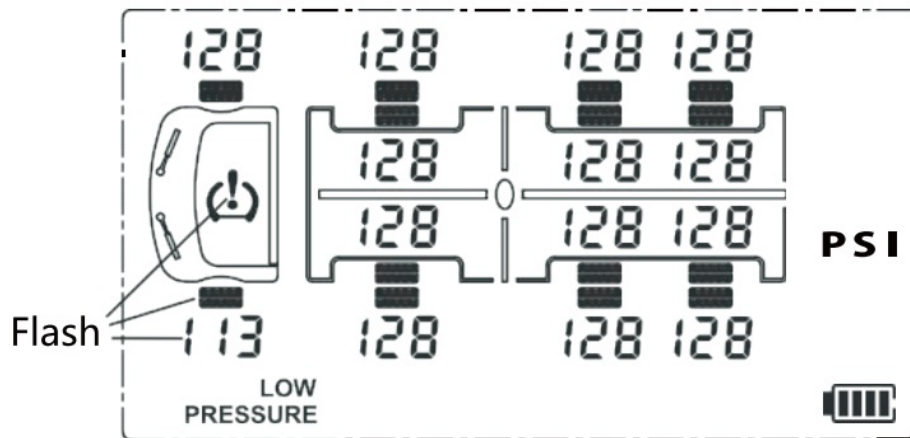E.g.: While the left tire temperature on 1axle is 71'C, the corresponding tire icon, tire data, and alert icon flash together with a continuous beep.

4. **Fast Leakage Alert**

E.g.: While the left tire pressure on 1axle drops quickly, the corresponding tire icon, tire data, and alert icon flash together with a continuous beep.
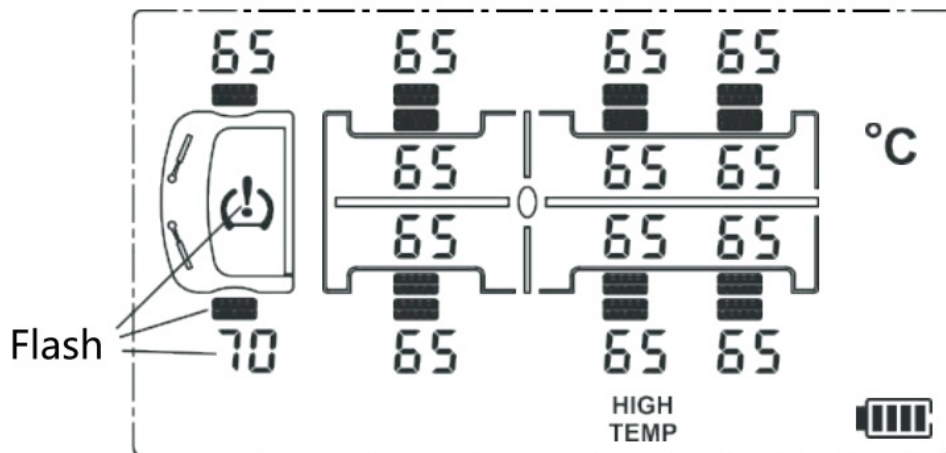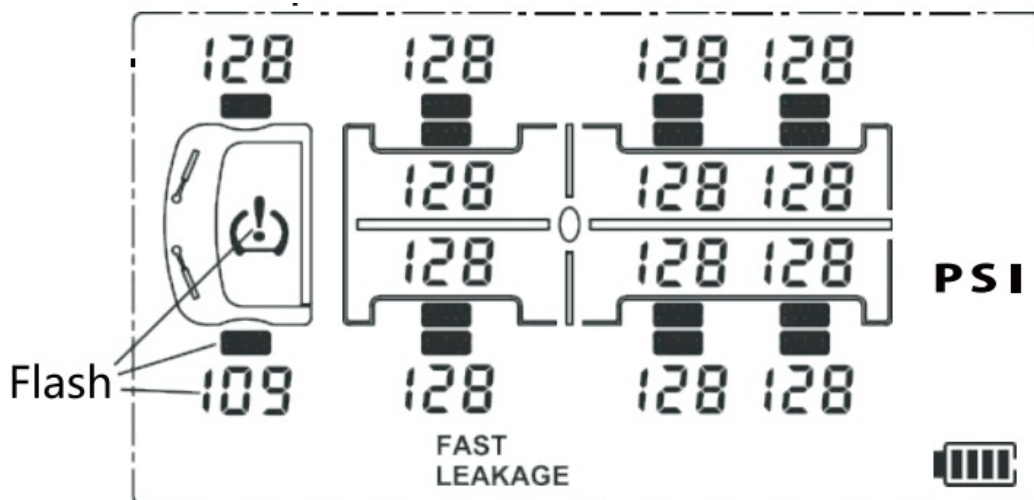

5. **Sensor Low Battery Alert**

E.g. : While the left tire pressure on 1 st axle has low battery alert, the corresponding tire icon and low battery alert icon flash together with a continuous beep
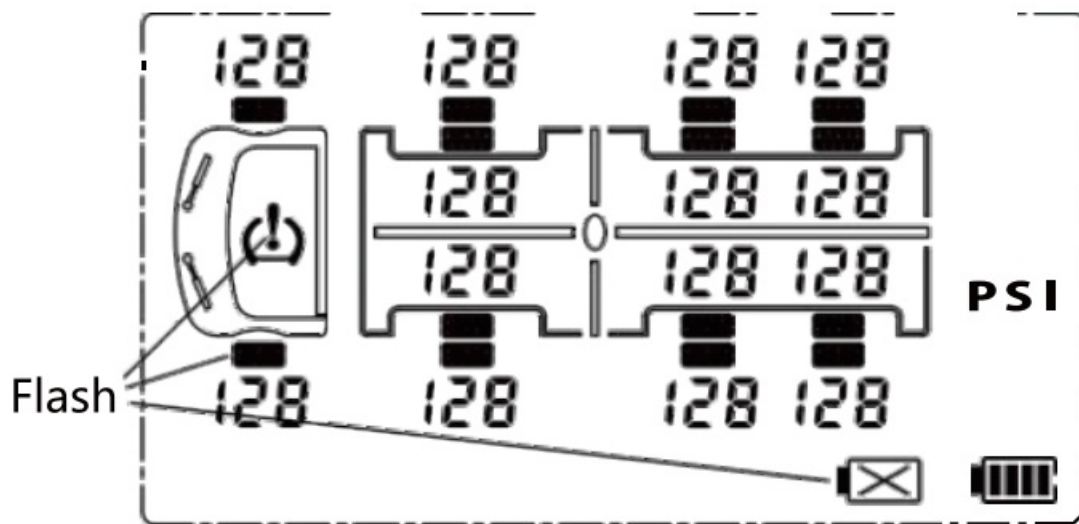
Flash

6. Monitor Low Voltage Alert

While the monitor has low voltage, the low battery icon and alert icon will flash together.

Flash
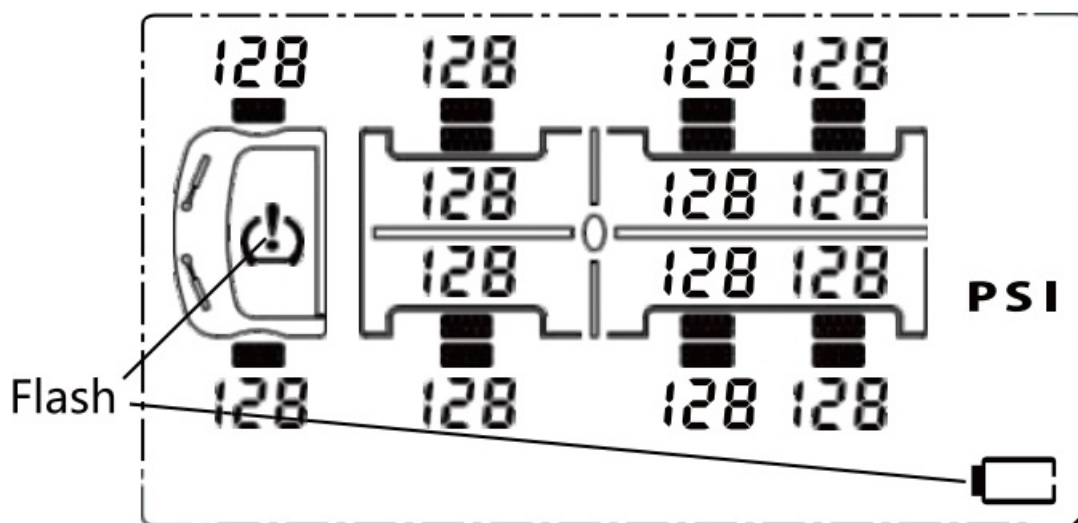
Specification

1. Monitor

Pressure Range	0-188 PS1(0-13 BAR)
Working Temperature	-20C-80C
Storage Temperature	-30C-85C
Input Voltage	SV
Transmission Frequency	433.92MHz
Size(mm)	(LWH)1157122
Weight	135g

2. Sensor

Pressure Range	0~ 188 PSI (0~ 13 BAR)
Pressure Accuracy	±0.1 BAR(± 1.5 PSI)
Temperature Accuracy	±3C
Battery Life	2years
Working Temperature	-40°C~80°C
Storage Temperature	-40°C~8S°C
Transmission Frequency	433MHz
Size(mm)	R 21mm,H 21mm
Weight	13g

Cautions

1. The tires' temperature and pressure will increase while driving. The vehicle should be stopped in a safe place if there is high temperature or high pressure alert in case of break problem or flat tire.
2. Driver should stop the vehicle and get off to check the tire if there is fast leakage or the pressure goes up quickly in the tire.
3. Please inflate the tire when the tire is over pressure, and deflate the tire when the tire is under pressure.
4. After the system is installed correctly, it will alarm while there is abnormal tire pressure/ temperature, driver does not need to stare at the monitor all the time while driving.
5. Please use the system in appropriate conditions, any consequence caused by misusing is not liable for the distributors or the factory.
6. Installation of the system should strictly follow the user guide, any breakage caused by improper installation is not liable for the distributors or the factory.
7. Please set the alert data according to actual vehicle type according to the suggestions of your local distributor. Usually the system has been set well in factory. Any improper settings out of the factory default settings is not liable for the distributors or the factory.
8. Pictures in the manual is for reference only. Detail information in this manual is subjected to be changed without notice.
9. System installation should be carried out by professional persons. Be ware of the sensors when reload the tires.
10. Please be ware of children in case they touch any of the component or accessories in the system, it may be dangerous for children.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does

cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment. 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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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Documents / Resources

Wireless Tire Pressure Monitoring System
Users' Manual
Item No.: M05

Thank you for choosing MIRAIDON
If you encounter any situation
during installation and use,
please feel free to contact us,
we can here just for you.

The MIRAIDON Team.
E-mail: support@miraidon.net

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M05 RV Tire Pressure Monitoring System, M05, RV Tire Pressure Monitoring System, Tire Pressure Monitoring System, Pressure Monitoring System, Monitoring System, System

References

- **User Manual**