



Tai-Technologies TPMS user's manual

Tai-Safety can ensure your safety driving. The Tire Pressure Monitoring System applies to trucks, cars, and motorcycles. The truck sensor is fixed by stainless clamps. Car and motorcycle sensors are fixed on by air valves. Once you install the Tai-Safety TPMS in your vehicle, the system will automatically monitor your tires, in real-time, for pressure and temperature. The sensor located in the wheel uses wireless to transfer DATA to the transceiver in your car. When there is any abnormal pressure and/or temperature in the wheel, the system will transmit an alarm signal. In real time it will present a digital figure for warning a driver. This system ensures you are driving in safety.

FCC Notice

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATIONS IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFEERENCE THAT MAY UNDESIRED OPERATION.

Caution: Any changes or modifications in construction of this device which are not expressly approved by The party responsible for compliance could void the user's authority to operate the equipment.

Content:

Truck Package: 1 display.

- 6 or 8 or 10 sensors with clamps.
- 1 power cord cigarette lighter plug.



Car Package: 1 display.

- 4 sensors with air valve.
- 1 power cord cigarette lighter plug.



Motorcycle Package: 1 display.

- 2 sensors with clamp.
- 1 power cord

System Installation and Usage

The system installation

There are two parts of system installation

1. Set up the display unit in the vehicle
2. Set up the transmitter unit sensor in tires

We strongly suggest installing the display unit first, and then install the tire transmitters later.

Sensor Installation:



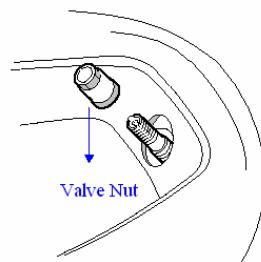
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The Sensor should be installed by a professional workshop.

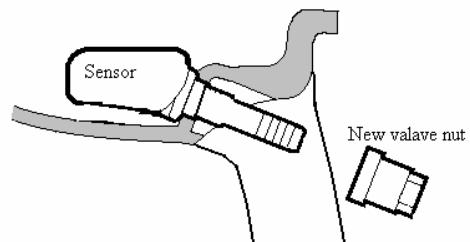
- Remove the tires from vehicles.
- Deflate the tires and separate the wheel and tire.
- Place the new sensor.

1. Air Valve Type:

On each sensor is a sticker showing where the sensor should be installed. Hold the sensor toward the wheel. Tighten the valve nut while you push the sensor against the wheel. The new valve nut torque is (30~50kgf-cm) 3~5Nm.



Tire Pressure Sensor with valve stem assembly



2. Clamps Type:

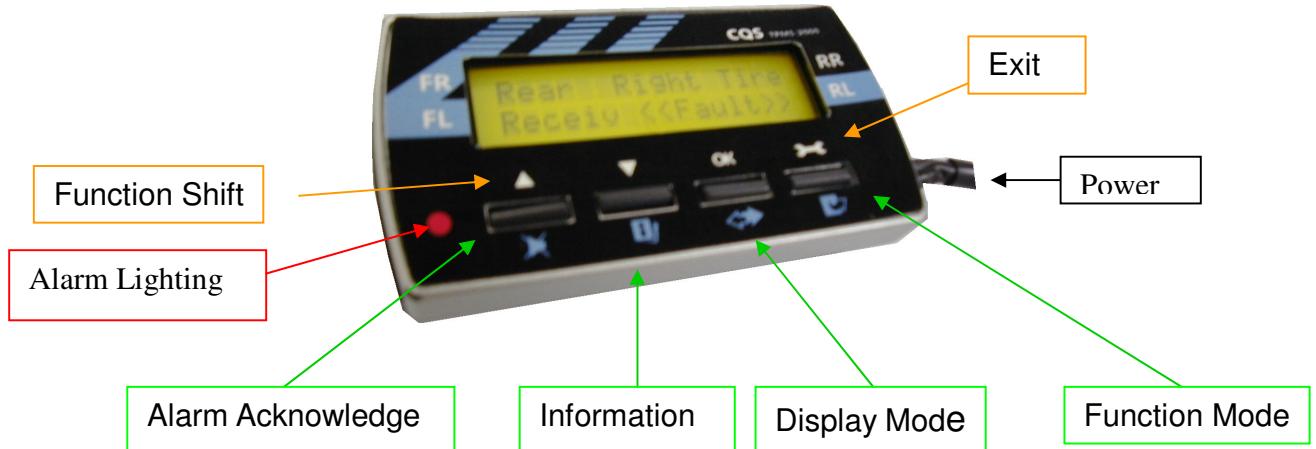
You have to use clamp pierce through sensor and fix it at center of rim. After you have the clamp tightened by using screw driver, then cut off the remaining clamp.



- When you are assembling them you have to notice the disassembling tooling whether will run into the sensor or not. If it were done, please carefully bypass the sensor. Maybe you have to change rim or using clamp type TPMS. Set the wheel and tire together and inflate to its proper pressure.
- To soak the air valve into water, to ensure the wheel doesn't leak.
- Balance the wheels.
- Place the wheel on correct locations.



Receiver Setup:



Once the TPMS receiver power is on, it is at a waiting mode to wait for the sensor signal. It will show "Wait" till its signal arrives. In the order of the display, provide correct information and alarm. The unit should be setup with HIGH, LOW pressure and HIGH temperature thresholds. Push Function Mode button to enter function set up mode. The operation of this setup is listed in the below

@ Adjusting the high temperature threshold: Default 85°C



@ Adjusting the High Pressure threshold: Default 40psi



@ Adjusting the Low Pressure threshold:Default 25psi



@ Car : 4 Sensors display. Please execute it at the first time start up

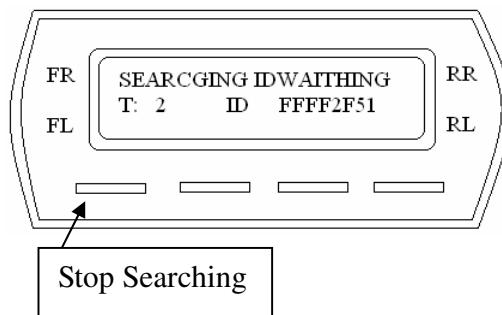


@ Truck : 6-18 Sensors display, Please execute it at the first time

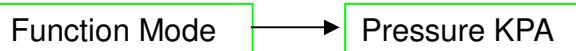




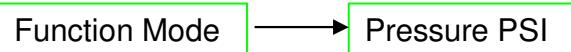
@ ~~DSE~~ ~~Safe~~ ~~TPMS~~ Search your sensor ID, its ID must same as each sensor sticker showing.
This function is only used when you want to change sensor or repair.
To use the leftest key to interrupt ID scan and to exit.



@ Adjusting display Pressure unit KPA



@ Adjusting display Pressure unit PSI



@ Adjusting display temperature unit degree Centigrade



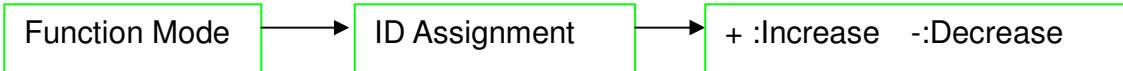
@ Adjusting display temperature unit degree Fahrenheit



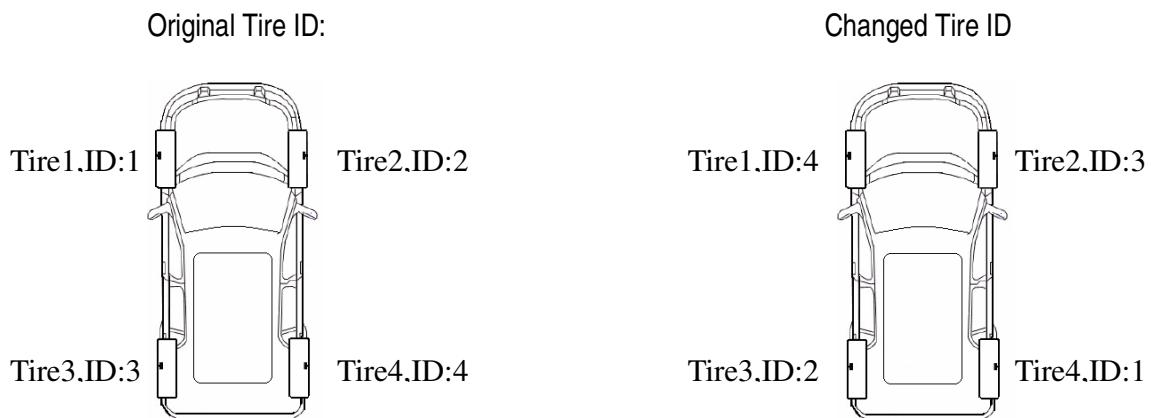


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@ Reassign ID



As you change tires position, please use this function to reassign the original ID to changed tire position.
Example:



Step 1:Enter ID Assignment mode,
Step 2:Using + :Increase - :Decrease ,
ID1 -> Tire 4; “Save”
ID2 -> Tire 3; “Save”
ID3 -> Tire 2; “Save”
ID4 -> Tire 1; “Save”
Step 3:“OK”,Exit
Step 4:Power Off/On restart.

Alarm Acknowledge:

If the pressure or temperature from tires is over the alarm threshold, the buzzer will sound. The LCD will show the faulty tire and corresponding information. You can press the **Alarm Acknowledge** key to inhibit the buzzer sound for 10 minutes. If the fault is not relieved, the buzzer will continue to sound.

Information:

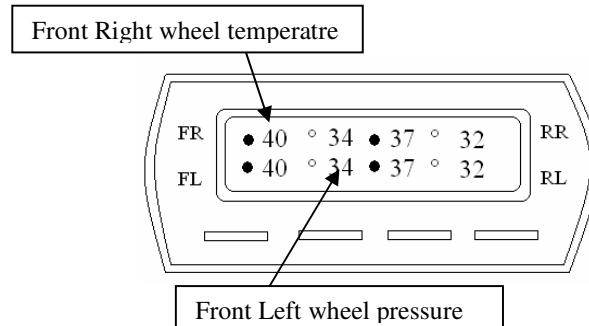
Press the **Information** Key to review the threshold of pressure, temperature, and the current running time of installed equipment.

Change Display Mode

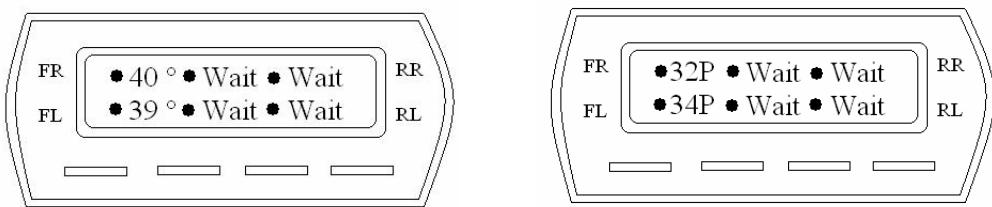
Press the **Display Mode** key to change display.
◆ A car receiver user has 4 sensors swap to each sensor display.



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- ◆ A 6 wheel truck user is pressure swap to temperature display.



- ◆ A 8 to 10 wheels truck receiver displays only each wheel turning. From front wheel Left 1,Right 1,Left2,Right 2....to rear wheel.

Reacting to Alerts

If the sensor detects an abnormal temperature or if the pressure is too high or low, these status levels will alert the buzzer sound and an alarm message will indicate a problem. When an alert or warning is received, reduce vehicle speed. Proceed to a safe stop location where the tire can be inspected and /or serviced.

Use of Chemical

Temporary resealing or re-inflation products containing internal sealants or propellants in any tire assembly may adversely affect the operation of the sensor/transmitter.

The Specifications of Tai-Safety TPMS

1. SENSOR AND TRANSMITTER SPECIFICATIONS

Battery life More than 5 years

Operating temperature -40 °C to 120 °C

Operating humidity 100%

Operating frequency 315MHz or 433MHz

Pressure monitoring range 0~73 psi for passenger car and motorcycle, 0~108 psi for truck.

Pressure reading accuracy At Normal condition \pm 1.5 psi at normal pressure range



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Temperature reading accuracy ± 2 °C

Transmission power 315MHz, 433MHz

Battery 3.6 V

Sensor weight 38gm; Sensor with valve weight 53 gm

2. RECEIVER SPECIFICATIONS

Operating voltage 9~30 V DC

Operating current 150 mA

Operating temperature range -20 °C to 80°C

Frequently ask question

Why didn't I receive any tire information? The alarm sounded, but the tire pressure and the temperature is OK.

What happened?

ANSWER: The system is a wireless RF product. Therefore, it may not receive a signal due to: poor environment conditions, incorrect operating, or incorrect installation. Although we use protected 315/433 MHZ communication, the external radio still can interfere our system. Please disconnect the power and turn on the power again to solve this issue. The receiver will be on "Wait" mode for over 10 minutes if it doesn't receive a signal.

Contact

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