

U901RV

Instruction Manual

Wireless tire pressure and temperature monitoring system

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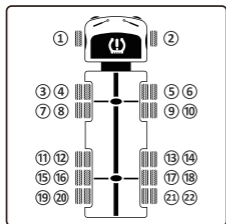
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- ① **Select button**
 ② **SET & Confirm button**

In working state, hold down for 3 seconds to enter the setup mode.
 After setting, hold down for 3 seconds to save and exit to the working interface; press the SET button to confirm.

Fig. 5-0-1



- ③ **Select & On/Off button**

In working state, hold down for 6 seconds to turn on or off. Note: After receiving this product, please be sure to turn on the monitor at first, and then install the sensor in turn like Fig. 5-0-1.

1. Precautions

1.1 Safety Precautions

Please read the following precautions carefully before installing this product:

- ① The receiver should be installed in a position that does not affect the line of sight of the driver.
- ② The receiver should be fixed to avoid falling off during driving.
- ③ After installing the transmitter, check whether the tires of the vehicle are leaking. If necessary, apply soapy water to the air nozzle to check if there is a leak.

- Take care to avoid tires blowing up when the air pressure is too high, and pay attention to fuel consumption and balance when the air pressure is low.
- This product allows effectively monitoring tire in real time, but it can't avoid safety accidents. Therefore, tires of good quality are as important as ensuring normal tire pressure through this product.
- Pay attention to driving safety when you check the pressure and temperature while driving.

1.2 Installation Precautions

- The monitor will sleep automatically if it does not detect any vibration in 5 minutes. A slight vibration will automatically turn it on to detect the data sent by the transmitter.
- There is a wireless connection between the sensor and receiver and the transmission distance is far enough. Many anti-interference functions have been designed to minimize the possibility of interference.
- In the course of driving, the tire pressure will have a high or low change due to the thermal expansion and contraction of air, which is a normal phenomenon.
- Tires usually have natural air leakage. This is a normal phenomenon and has no direct relationship with the installation of this product.

2. U901RV Components

2.1 U901RV Components



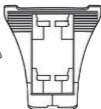
Monitor



Lithium battery



Bracket



Back clip

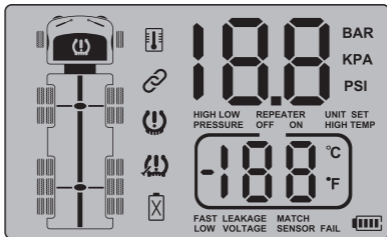









Power cord

* SensorX6 to 22(built-in or external sensor is selected by the user)

U901RV Components

2.2 LCD Display and Description of Buttons

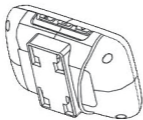


Icon description	
	Warning of tire temperature exceeding normal value
	Rematch sensor icon
	Warning of tire pressure exceeding normal value
	Warning of tire pressure lower than normal value
	Warning of emergency leak
	Warning of sensor battery low power
	Monitor battery display
°F °C	Temperature unit (°C or °F)
BAR PSI	Pressure unit (BAR or PSI)
Button ▲	hold down for 6S to turn on or off ;press to select
Button ▼	Select button

3. U901RV Monitor

3.1 Installation and Use

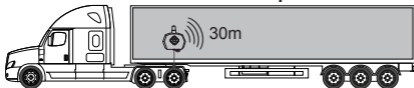
- ① Hold the back clip with the bracket and fix it on the windshield; adjust the viewing angle as needed



Red wire Black wire

Repeater:Optional,
strengthen the signal

Install the repeater



Repeater can make sure to strengthen the signal within 30m.Red cable connects with the anode of the battery,and the black cable connects with the cathode.

Caution : Please must make sure the monitor match with the sensor successfully so that the repeater can transfer the signal after connecting with the power. (Repeater:Just connect with the power.It will turn on automatically and transfer the signal,no need to turn it on or turn it off)

- ② Directly attach the monitor (with back clip) to the instrument panel with double-sided tape or anti-slip mat.
- ③ Connect one end of the charger to the receiver and the other end to the cigarette lighter in the car for charging. To extend the battery life, please charge at least 3 hours at the first charge.

Monitor specifications	
Input voltage	DC 8V ~ 16V
Storage temperature	-30°C ~ 85°C
Operating temperature	-20°C ~ 80°C
Frequency	433.92MHz
Size	86*57*26 (L*W*H)
Weight	61g

3.2 Monitor Auto/Manual Power-on

When the vehicle is stationary for 5 minutes and there is no power cord connected, the monitor will automatically enter sleep mode, the display will turn off and will not receive any sensor data. When the vibration is sensed, the monitor will return to standby.

When the car will be parked for a long time, you can turn it off/on manually. When the monitor is off, you can press and hold the ▲ button for 6 seconds to turn it on; when the monitor is on, you can press and hold the ▲ button for 6 seconds to turn it off. When the battery is low, the monitor turns off automatically.

4. U901RV Reset

4.1 Default Parameters

① The factory settings are as follows

Pressure unit	BAR/PSI
Upper limit of tire pressure	12.1BAR(175PSI)
Lower limit of tire pressure	6.9BAR(100PSI)
Temperature unit	°C/°F
Tire temperature alarm value	65°C/149°F

Relationship among pressure units PSI, kg/cm², kPa and BAR

1BAR=14.503PSI 1BAR=1.0197 kg/cm² 1BAR=100kPa

4.2 Changing Parameters

① In working state, hold down the SET button for 3 seconds to enter the factory setting mode of the U901RV monitor. There are 7 groups of settings that can be reset, as follows:

1. Pressure unit setting	5. Rematch settings
2. Temperature unit setting	6. Turn individual sensor ID on screen ON or OFF
3. High and low pressure alarm value setting	7. Turn the third axle's sensor ID ON or OFF
4. High temperature alarm value setting	

U901RV Reset

① Pressure unit setting

In working state, hold down the SET button for 3 seconds to enter the setting mode. Press the ▲ or ▼ button to enter the interface shown in Fig. 5-1-1, press the SET button to enter pressure unit setting, press the ▲ or ▼ button to select the desired unit, for example select BAR like Fig.5-1-2. And press the SET button to confirm setting, finally hold down the SET button for 3 seconds to save the setting and exit to standby.

1. Enter setting mode
2. Press the ▲ or ▼ button to enter the interface shown in Fig. 5-1-1
3. Press SET and then press the ▲ or ▼ buttons to select the unit, for example select BAR like Fig.5-1-2
4. Press the SET button to confirm
5. Hold down the SET button to save and exit

Fig. 5-1-1

Pressure unit
setting mode

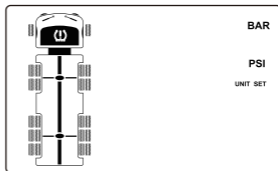
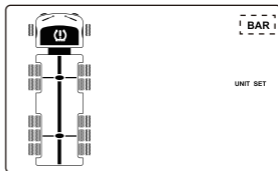


Fig. 5-1-2

For example: Select BAR
pressure unit



U901RV Reset

2 Temperature unit setting

In working state, hold down the SET button for 3 seconds to enter the setting mode. Press the ▲ or ▼ button to enter the interface shown in Fig. 5-1-3, press the SET button to enter temperature unit setting, press the ▲ or ▼ button to select the desired unit, for example select °C like Fig.5-1-4. And press the SET button to confirm setting, finally hold down the SET button for 3 seconds to save the setting and exit to standby.

1. Enter setting mode
2. Press the ▲ or ▼ button to enter the interface shown in Fig.5-1-3
3. Press SET and then press ▲ or ▼ to select the unit, for example select °C like Fig.5-1-4
4. Press the SET button to confirm
5. Hold down the SET button to save and exit

Fig. 5-1-3

temperature unit
setting mode

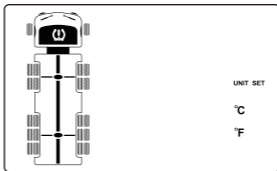
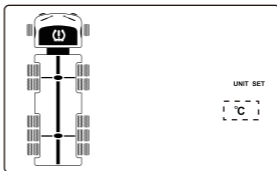


Fig. 5-1-4

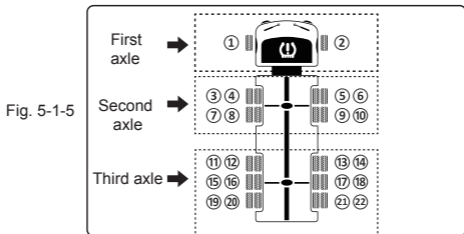
For example: Select °C
temperature unit



U901RV Reset

3 Tire pressure alarm value setting

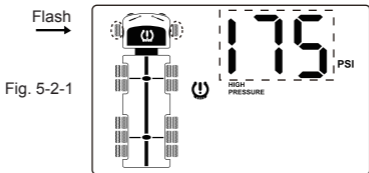
Factory Default: The tires in monitor interface are divided into three axles like Fig.5-1-5. The tire numbers; (01, 02, 03, 04, 05, 06,07,08,09, 10,11,12,13,14,15,16,17,18,19,20,21,22) represent the tire position where the sensor is located:



Note:Rematch when replace a new sensor or change the sensor location

Upper pressure limit alarm value setting:

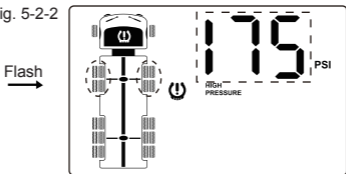
In working state,hold down the SET button to enter into the setting mode,press ▼ to Enter the interface shown in Fig.5-2-1.①press SET button again to enter upper pressure limit alarm value setting of the first axle. The value and the first axle will flash. Select the required upper limit alarm value for the first axle through ▲ or ▼ button.After selection,press SET button to save and then setting for the second axle. The value and the second axle will flash. The interface shown in Fig.5-2-2



The first axis

U901RV Reset

Fig. 5-2-2

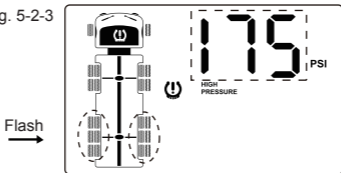


The second axle

② Select the required upper limit alarm value for the second axle through ▲ or ▼ button. After selection, press SET button to save and setting upper limit alarm value for the third axle. The value and the third axle will flash. The interface shown in Fig.5-2-3

③ Select the required upper limit alarm value for the third axle through ▲ or ▼ button. After selection, hold down the SET button to save and exit to standby.

Fig. 5-2-3



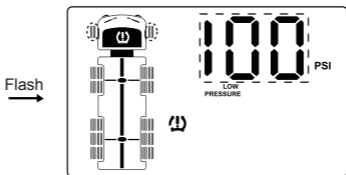
The third axle

U901RV Reset

Lower pressure limit alarm value setting:

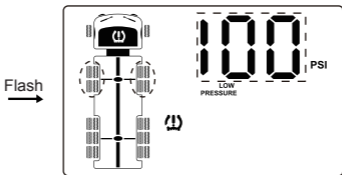
In working state, hold down the SET button to enter into the setting mode, press ▼ to Enter the interface shown in Fig.5-3-1 ① press SET button again to enter lower pressure limit alarm value setting of the first axle. The value and the first axle will flash. Select the required lower limit alarm value for the first axle through ▲ or ▼ button. After selection, press SET button to save and then setting for the second axle. The value and the second axle will flash. The interface shown in Fig.5-3-2

Fig. 5-3-1



The first axle

Fig. 5-3-2



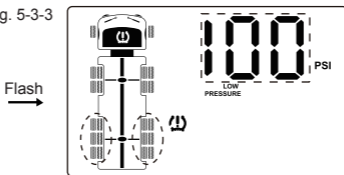
The second axle

U901RV Reset

② Select the required lower limit alarm value for the second axle through ▲ or ▼ button. After selection, press SET button to save and setting lower limit alarm value for the third axle. The interface shown in Fig.5-3-3

③ Select the required lower limit alarm value for the third axle through ▲ or ▼ button. After selection, hold down the SET button to save and exit to standby.

Fig. 5-3-3

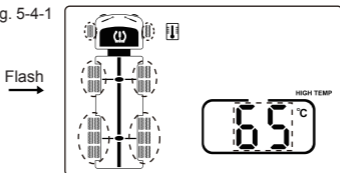


The third axle

4 Tire temperature alarm value setting

In working state, hold down the SET button to enter into the setting mode, press ▼ to Enter the interface shown in Fig.5-4-1. Press SET to enter setting, all tires and value will flash. Select the required high temperature alarm value for three axles through ▲ or ▼ button. Hold down the SET button to save and exit to standby.

Fig. 5-4-1



U901RV Reset

1. In working state, hold down the SET to the setting mode
2. Press the ▲ or ▼ button to enter the interface shown in Fig. 5-4-1
3. Press the SET button to enter settings
4. Press the ▲ or ▼ button to adjust the temperature value
5. Hold down the SET button to save and exit

5 Tire matching

(Use this function when replacing a sensor or monitor)

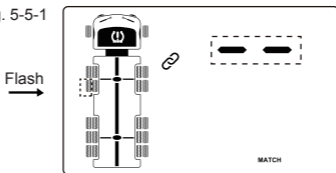
Press SET five times slowly in standby. Like figure 5-5-1. Press ▲ or ▼ to choose the tire you want to match. Install the corresponding sensor.

External sensor: Mount the sensor to corresponding tire.

Internal sensor: Install the internal sensor and inflate the corresponding tire.

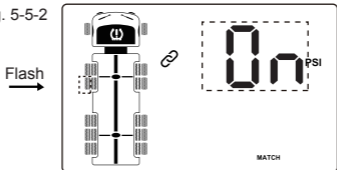
Sensor will send the data to the monitor when detect the change of pressure. Then monitor will ring and display ON, means match successfully. Like Fig 5-5-2. hold down the SET button for 3s to save and exit to standby.

Fig. 5-5-1



U901RV Reset

Fig. 5-5-2



6 Turn individual sensor ID on screen ON or OFF

Hold down the ▲ and ▼ buttons to the interface like Fig 5-5-3. Click the ▲ or ▼ to select the sensor ID you want to turn ON or OFF. Then click the SET to confirm, like the Fig 5-5-4. Finally hold down the SET to save and exit.

Fig. 5-5-3

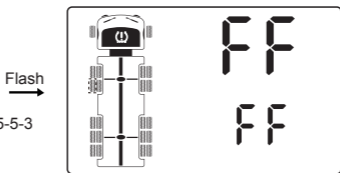
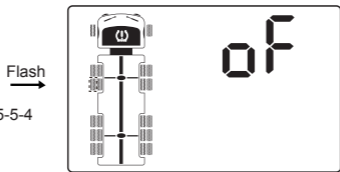


Fig. 5-5-4

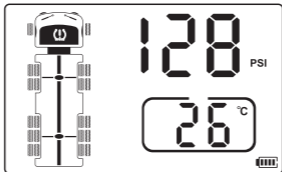


Off state tire shows OF as above

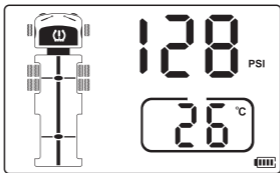
U901RV Reset

7 Turn the third axle's sensor ID ON or OFF

In working state, hold down the SET and ▼ buttons until beeps to turn ON or OFF the third axle



Turn on the third axis to display as above



Turn off the third axis to display as above

5. Status at the Time of Alarm

- ❗ When the tire pressure and temperature exceed the user-defined safety range, the corresponding parameters and fault icons on the monitor screen will flash, accompanied by alarm sound. You can press any button to cancel the alarm sound, but the fault icon remains on and flashes until all tire failures are removed. For example, the alarm values set by the user are as follows:

High pressure alarm value: 175PSI

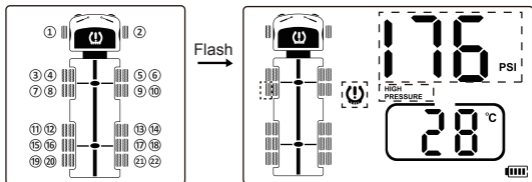
Low pressure alarm value: 100PSI

High temperature alarm value: 65°C

❶ Alarm when the tire pressure is higher than the user set value

For example: When the pressure of No. 07 tire is 176PSI (exceeding user set value), the monitor will appear as shown in Fig. 6-1-1, accompanied by alarm sound;

Fig. 6-1-1

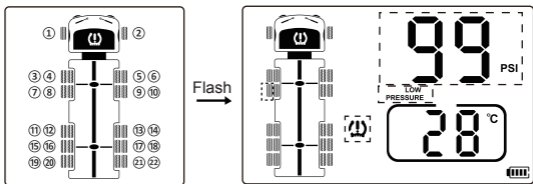


Status at the Time of Alarm

2 Alarm when the tire pressure is lower than the user set value

For example: When the pressure of No. 07 tire is 99PSI (lower than user set value), the monitor will appear as shown in Fig. 6-2-1, accompanied by alarm sound;

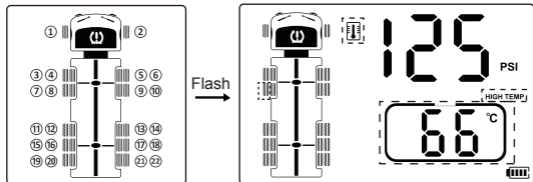
Fig. 6-2-1



3 Alarm when the tire temperature exceeds the user set value

For example: When the temperature of No. 07 tire is 66°C (exceeding user set value), the monitor will appear as shown in Fig. 6-3-1, accompanied by alarm sound;

Fig. 6-3-1

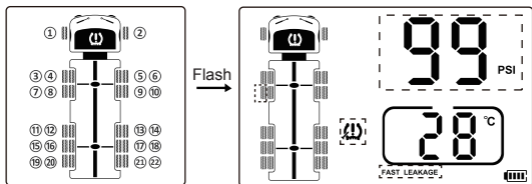


Status at the Time of Alarm

4 Alarm when the tire leaks

When the sensor detects tire leakage, it will send the leakage data to the monitor immediately. Leakage icon appears on the monitor and the corresponding tire pressure value flashes, accompanied by alarm sound. You can press any button to stop the alarm sound, but the icon of the tire leakage and the corresponding tire pressure value still flash until solve the problem. For example: When tire No. 07 leaks, it is as shown in Fig. 6-4-1;

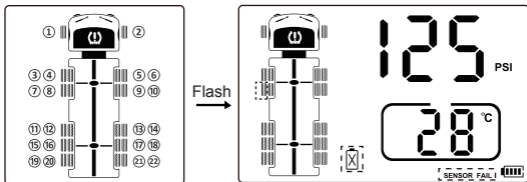
Fig. 6-4-1



5 Sensor low power alarm

When the sensor detects that the battery power is low, it sends a low power signal to the monitor immediately. The monitor will show the low battery icon and the corresponding sensor tire number flashes, accompanied by alarm sound. You can press any button to stop the alarm sound. However, the low power icon still flashes until replace a new one battery, as shown in Fig. 6-5-1.

Fig. 6-5-1

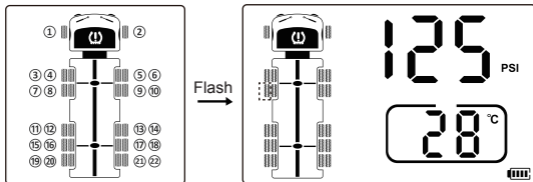


6. Read the sensor value and adjust brightness

① How to read the separate sensor value?

In working state, press ▼ to select the tire you want to read, selected tire will flash.

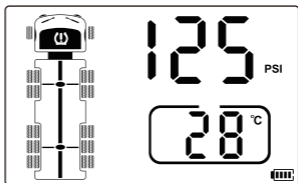
Fig. 6-7-1



② How to adjust the brightness?

In working state, press ▲ to adjust the backlight grade you need.

Fig. 6-7-2



7.Remove failure

1 Monitor can not display properly

- A Ensure the monitor is turned on.
- B Ensure whether the battery is installed.
- C Ensure whether the battery polarity of the monitor is wrong.
- D Check whether the battery is low power. Battery may be have no electricity after being used for a long time. It is recommended to check whether the monitor has a display after the power cord is connected.
- E If use the vehicle power supply, please ensure it is connected properly.
- F Check whether the monitor come into sleep mode. This mode will start automatically while the vehicle is stopped. At the time the power of the monitor is consumed minimally. The monitor can be awakened and restore normal state when the vehicle traveling again , or the monitor is shaken, or press a button on the monitor.
- G If the above treatment methods are unable solve the problem, please contact the local dealer.

2 Monitor do not display tire status sporadically

- A Check whether the sensor is closed to the vehicle. Because the data transmission between the sensor and the monitor is in a wireless way. This way is limited to the distance.
- B Check whether the sensor installed the CR1632 lithium battery.
- C Check whether the sensor installation is right.
- D Check whether the sensor has no electricity. Battery may be have no electricity after being used for a long time. We recommended to replace a new one.
- E When you need to replace battery, please take off the battery and wait 10s, then install it.
- F Check whether the sensor is not confused. Because each sensor has a unique ID number, the monitor could only recognize the same set sensor.
- G If the above treatment methods are unable solve the problem, please contact the local dealer.

Remove failure

- 3** When the monitor show the low battery power icon and still be used,it will lead to abnormal phenomenon. If you recharge it, it will be restore normal.
- 4** **Monitor screen display wrong color**
Check whether the temperature is too high in vehicle (above 65°C), when the temperature return to normal lever, it will display properly.
- 5** **Monitor screen update slow down**
Check whether the temperature is too low in vehicle (lower than -20°C) , when the temperature return to normal lever, it will display properly.
- 6** **The monitor do not display tire data after rebooting**
When the sensor detect tire pressure with more than 1 PSI, the sensor will transmit the data to the monitor, the monitor will display the data when the vehicle is running.
- 7** The model used for the vehicle range (pressure range within 217PSI/15BAR) like bus,coach ,car, automobile, sedan,limousine, sports car, coupe,SUV,wagon,caravan, van,truck,trailer,all-terrain vehicle, taxi and so on.

