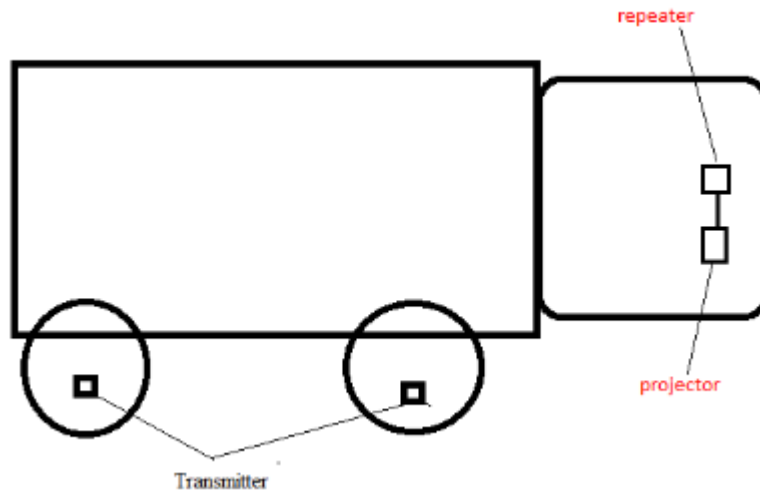


User manual  
Model No.:VR-308B

### 1 Introduction

Tire Pressure Monitoring System(TPMS) is a kind of safty equipment using for monitoring tire pressure & temperature. VR-308B series are the latest new TPMS with high performance and technology developed by VR company, it is the integration of tire safty monitoring and tire management, this series provide perfect solutions for user with easy operation display and improved functions to help monitoring tire safty, daily management and operating analysis.



VR-308B series include three parts of transmitter, repeater and projector. Internal projector and external projector are two ways to fix projector to satisfy different needs. Internal projector is standard configuration, we provide two types for you to choose, binding and valve.

### 2 Working principle

transmitter monitors regularly tire pressure, tire temperature, and battery voltage, then it coded data after collecting and handling data and sending it out by wireless. repeater receives data, it decoded and recognised, and displays related information. If the data information is not included in the formal scale, projector will give an alarm.

### 3 Setup instruction

It is very easy to set up binding projector, there is a band which is connected to the projector with two hole, then fix the band into wheel rim, tighten screw of band.

For valve projector, you need to make an order to have a special one (standard type is V3-20-4) replacing the original one, the replacement must be taken place when the valve type is the same.

For repeater, we suggest using selective bracket to be absorbed in windsheild glass, the power of car cigarette lighter is power supply.

The standard configuration for repeater is internal adaptive power supply 9v-30v, there is external power line for repeater to connect to vehicle ACC power.

**Repeater?** is an equipment with constant power and two lines, setup position is different according to different car, please call our service center for more setup information. ACC power is a suggested suitable one for **repeater** power.

#### 4 Working mode

Normal mode, black screen mode, power off mode, setup mode, match mode, these are repeater working.

#### 5 Operation direction

##### 1 Normal mode

VR-308B series can display a few of tire data at the same time, data of six tire and one spare tire are the most, data of vehicle upper shaft position is displayed at the top screen, data of vehicle lower shaft position is displayed at the bottom screen. Data will be displayed in the form of split axle when there are more than six tires. Yellow “-“ at both sides display the data of present axle. Pressure and temperature are displayed in the form of divi-screen, screen goes automatically every 5 sec., pressure data is displayed firstly then there will be temperature data. Turning screen by hand when press shortly “function” button. Pressure data is displayed at screen, top of screen will display word “pressure”, temperature data is displayed at screen, top of screen will display word “temperature”.

In the form of normal mode, display light will shut itself down after over 30sec. of no press activity and revert to black screen mode, blue LED are always on. Normal mode will be on work again when pressing any button.

##### 2 Normal mode alert

When pressure, temperature, projector signal and projector power voltage are out of control and give an alarm, sound and light alert will be appeared immediately, at this time, if it is black mode, display light will be opened and normal mode will be on work. All alert information will be displayed at screen and we can see all these information when we press button “main、-“ or “suspend、+”, if we want to know alert information of one tire, the present tire flashes when operating, turning screen automatically display will be on work after 8 sec. of no activity.

As showed below, low pressure alert, screen displays “out of gas”, press button “main、-“ or “suspend、+” find that left tire leak and pressure is low (7.6Bar) and temperature is high (85).

Pressure is below over 0.6bar/12sec., leak alert. Screen displays word “leak”.

Pressure is below 15% of standard pressure, low pressure alert. Screen displays word “low pressure”.

Pressure is over 30% of standard pressure, high pressure alert. Screen displays word “high pressure”.

Temperature is over 85, high temperature alert. Screen displays word “high temperature”.

There is no signal received from projector for a long time, screen displays word “no signal” and displays “---“ for data of pressure and temperature.

Power voltage of projector is below 2.3v, low power voltage alert. Screen displays alert signal “”.

Low pressure, high pressure and leak are high grade alert, buzzing is fast and red LED flashes rapidly. High temperature, low power voltage and no signal are low grade alert, buzzing is slow and yellow LED flashes slowly.

Buzzing 10 sec. repeatedly every ten min. is high grade alert, alert will buzz till danger released.

Notice: light will flash to remind driver of taking care when alarming till danger released.

### 3 Power off

Normal mode: pressing "set up" for 4 sec., power is off. If it is in the form of "set up", don't stop pressing button.

Pressing "set up" will open again after power is off. Light is on in order, display light is on, self-check is on, then be on work after a sound of buzz.

### 4 Lock

"set up" and "match" mode are locked after normal mode lasts 5 sec., operation can only be effective in the form of normal mode, pressing button combination can unlock.

### 5 Standard pressure set up

In the form of normal mode, pressing button of "set up" for 2 sec. after unlock mode lock, set up mode will be on work, at this time, stop pressing button or else power will be off.

Lower left part of screen displays "set up", displays "standard pressure", all tire data display at it, shaft position and standard pressure data display on the present shaft position, other shaft display "---".

Standard pressure is set up according to shaft for VR-308B series, and adjustment happens according to per 0.5Bar changes.

Pressing shortly button of "set up" will display different shaft in order.

Pressing "main、-" or "suspend、+" will modify standard pressure setting up. Pressing longly button of "set up" will store and exit setting up mode after setting up, and return to normal mode.

### 6 Tire match and delete

In the form of normal mode, pressing "main /-" or "suspend /+" at the same time for 2 sec., match mode will be on work, VR-308B series allows wireless match and inflation match.

Lower right part of screen displays "match", all tire data are displayed on it, present tire flashes, blue LED will be always on and current pressure data is displayed if present tire has been matched to projector; red LED will be always on and "---" is displayed if present tire hasn't been matched to projector.

#### Wireless match

If present tire has been matched to projector, pressing "set up" for 2 sec., buzzing and tire setting up will be deleted, blue LED is off and red LED is on, pressure data "---" is displayed.

If present tire hasn't been matched to projector, projector in 50cm will be matched automatically, red LED is off and blue LED is on when this match is succeed, buzzing and pressure data is displayed on it.

If there is only one projector, this match is confirmed, if there are more projectors, competition will be happened, we can't confirm that which one is be matched even if the match is succeed. For this reason, to those vehicle which accessory wheel is close to each other, outer tire is matched firstly, then inner tire, when shaft is close to each other, we also handle like this.

Match finished, pressing "main /-" or "suspend /+" will store and exit match mode and return to normal mode.

## Inflation match

Internal and external are two type of projector.

After internal projector is set up in tire, match mode is on work before inflating tire, pressing “main /-“ or “suspend /+” to choose the present tire which hasn’t been matched. Tire pressure goes up to over 0.5Bar in 4 sec. by inflating, if this projector hasn’t been matched, buzzing, red LED is off and blue LED is on, pressure and temperature data are displayed at the same time, match finished.

As external projector is set up in valve so inflation goes first. repeater goes to match mode, pressing “main /-“ or “suspend /+” to choose the present tire which hasn’t been matched. External projector is set up, if this projector hasn’t been matched, buzzing, red LED is off and blue LED is on, pressure and temperature data are displayed at the same time, match finished.

Notice:

VR-308B series support tire setting up information and standard pressure setting up by wireless transmission. Matching right tire by matcher, pressing “function” for 2 sec., matcher will call repeater of same scale, red LED, yellow LED, blue LED will be on in order, then pressing “ function” for 2 sec., matcher transmit information to repeater, repeater will re-start after receive is finished, matched tire information can be read after re-start.

## 6 Parts list

Notice:

VR-308B series can monitor effectively tire pressure and temperature, but can’t prevent accident from being happened. With the help of this series, user should ensure vehicle running in the normal condition with right tire pressre and temperature, tire using with poor quality and wear seriously is should be avoided.

Parts disassembly is not allowed for safety consideration of other equipment of this vehicle.

Driver don’t need to check data frequently during driving in case attention distraction with the help of monitoring automatically of this series.

Parts will be improved with progressed technology without further notice.

Parts replacement and buying, please go to store of our company or dealer.

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.

Note: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.