

Tire Pressure Monitoring System

Setup & User Manual

Thank you for choosing RVenture TPMS. For a successful installation, follow the below instructions carefully before relying on RVenture TPMS to monitor your tire pressure and temperature.

Sensor Features

1. The sensors easily install on the valve stem, can be installed inside the wheel/tire assembly or came from the factory installed inside the wheel/tire assembly.
2. Sensors are water resistant.
3. Removal of a screw on sensor will shut off the sensor battery.
4. Sensor batteries last approximately 1-1.5 years and have a user replaceable battery.
5. Tire leaks and high temperatures are detected quickly.
6. Sensors are automatically detected by the display unit but you must select the sensor location.

Display Features

1. 5-inch LCD color screen display with direction pad for ease of programming and use.
2. Magnetic dock on the display back for included suction cup mount, or any magnetic mount of your choosing.
3. Enter your cold tire pressure to automatically set high and low alert thresholds. High alert threshold defaults to 25% above cold tire pressure and low alert threshold defaults to 10% below cold tire pressure. These thresholds are also user adjustable.
4. Sensor battery voltage status feature.
5. USB-C power cord and adapter.
6. Rechargeable internal lithium battery.
7. Automatic display brightness, depending on lighting conditions.
8. Visual, audible and textual warning alerts will let you know when pressure, temperature or battery voltage are outside of automatic or user programmed threshold.
9. Tire pressure can be displayed in PSI or BAR.
10. Temperature can be displayed in °C or °F.
11. Will monitor power unit and up to five (5) trailers and a total of 46 tire positions including spares.
12. Scrolling tire pressure and temperature readings are displayed simultaneously for quick viewing of each tire.

Display Installation & Charging

The provided magnetic mount with suction cup base can be used on the windshield, side window or directly on smooth, nonporous surfaces.

To charge the display's non-replaceable, internal lithium battery, plug the USB power cord in the provided 12v power adapter and then into the vehicles 12v power port. Plug the USB-C end of the power cord into the side of the display. The battery icon on the screen will show state of charge and that charging is occurring.

System Default Settings

Pressure Unit	PSI
Temperature Unit	°F
High Pressure Alert	125 PSI
Low Pressure Alert	90 PSI
High Temperature Alert	158°F
Power Unit Cold Tire Pressure	
Steer Axle	100 PSI
Drive Axle	100 PSI
Spare Tire	100 PSI
Power Unit Manual Input High and Low Pressure	
High (Axle 1/2/3/S)	125 PSI
Low (Axle 1/2/3/S)	90 PSI
Trailer Cold Tire Pressure	
Trailer # 1/2/3/4/5	100 PSI
Trailer Manual Input High and Low Pressure Alert	

Pressure Unit	PSI
High (Axle 1/2/3/S)	125 PSI
Low (Axle 1/2/3/S)	90 PSI

Note: Default pressure settings are based on the cold tire pressure.

Cold Tire Pressure (CTP) System Default Settings

Cold Tire Pressure (CTP) defaults alerts are 25% above CTP for High Pressure and 10% below CTP for Low Pressure.

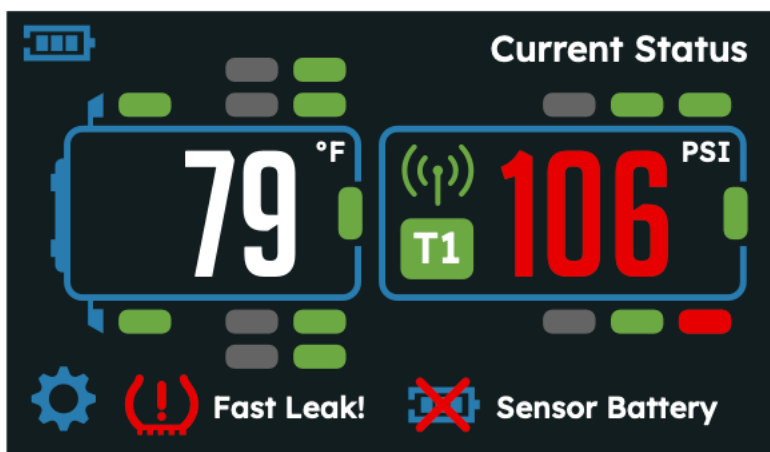
Example Scenarios	
Steer Axle	CTP of 100 PSI
Axle 1 High Alert	125 PSI (100 PSI CTP x 125% = 125 PSI)
Axle 1 Low Alert	90 PSI (100 PSI CTP x 90% = 90 PSI)
Drive Axle	CTP of 110 PSI
Drive Axle 2/3 High Alert	138 PSI (110 PSI CTP x 125% = 138 PSI)
Drive Axle 2/3 Low Alert	99 PSI (110 PSI CTP x 90% = 99 PSI)
Spare	CTP of 120 PSI
Spare High Alert	150 PSI (120 PSI CTP x 125% = 150 PSI)
Spare Low Alert	108 PSI (120 PSI CTP x 90% = 108 PSI)

Icons & Color Codes Meaning

	Tire Icon (uncoded)
	Tire Swap (Swap Tire Screen)
	Tire Normal (after coded)
	Tire Alert Pressure (after coded)
	Tire Alert Temperature (after coded)
	Pressure Warning
	Temperature Warning
	Sensor Battery Low
	Good Signal
	Weak or No Signal
	Trailer Icon (Trailer 1 example)

Understanding Your Tire Alerts

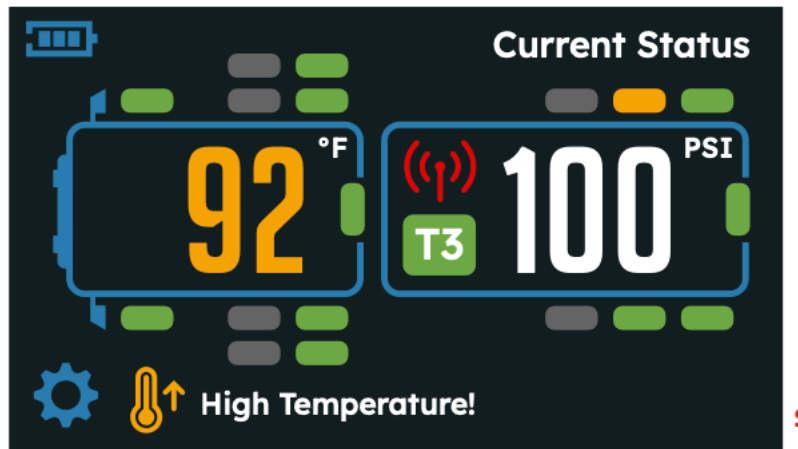
Fast Leak Alert



Example: Low Pressure threshold is 90 PSI.

1. Tire position will start flashing red.
2. Low Pressure indicator and icon will flash, once every second.
3. Audible alert will sound.

High Temperature Alert



Example: High Temperature threshold is 158°F.

1. Tire position will start flashing red.
2. High Temperature indicator and icon will flash, once every second.
3. Audible alert will sound.

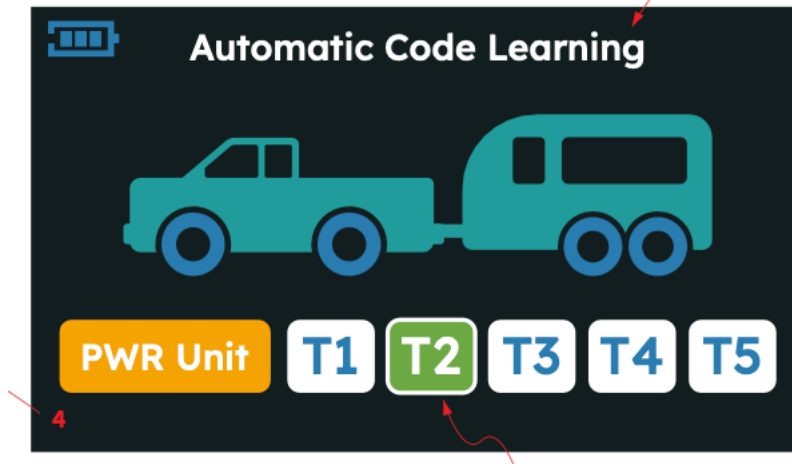
Adding Sensors

To pair sensors:

1. Press enter to view the settings screen
2. Select Automatic Code Learning



3. Select whether you are adding the sensors to the Drive Unit or a Trailer



4. Select the tire that corresponds to the position where the sensor will be installed and press enter;
The selected tire will flash yellow.
5. Screw the sensor onto the actual tire until hand snug and wait.
6. Sensor will turn green when found.
7. Repeat process for additional sensors.

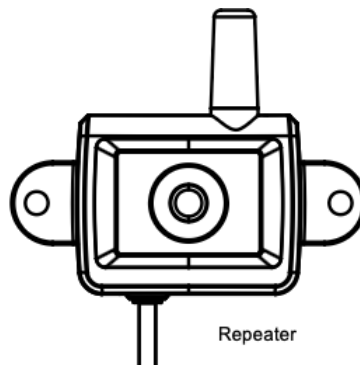
Repeater Installation

The repeater is an integral component to your TPMS system.

Failure to install the repeater could void the warranty coverage.

The repeater is used to strengthen/amplify the sensor signal to the display. A repeater is packaged with this system.

1. The repeater is wired to a 12V source that will be constant while driving.
2. The repeater comes with two wires, one red (+) and one black (-). Simply connect the red wire to a positive source and black wire to a ground or negative source.
3. The repeater is weather resistant. No additional setup is needed for the repeater.



Motorhome Installation

We recommend installing the repeater in one of the rear basement compartments where there is a 12v power source. Mount the unit inside the bay but against the outer wall. Do not put the repeater in the engine compartment because of excessive heat. Do not put the repeater in the rear closet because the metal in the mirror will block the signal.

5th Wheel Installation

We recommend installing the repeater in or near the battery compartment under the front overhang. Mount it with hook & loop fastener or two-sided tape to the inner, exterior wall. An alternate mounting place is on the top of the pin-box. Use industrial two-sided tape and mount the repeater on the upper slope of the pin-box. Connect the positive lead to the break-away switch (which has 12v power while driving). Ground the negative lead to complete the circuit.

Travel Trailer Installation

We recommend installing the repeater in the battery box on the front of the trailer. If the battery box is metal, connect the lines to the battery, then run the lines outside of the box and mount on the side of the battery box or the front tongue of the travel trailer.

Note: The red light on the repeater will illuminate “constant or blinking” (the repeater will illuminate with a constant light when power is applied, once the display is on and the sensors are reporting. The light will blink occasionally when transmitting information to the display).

If the light is not on, check your connections, source power or the in-line fuse on the positive lead of the repeater for issues.

Contact Us

Need help or have questions? Contact our Nashville, TN based customer service.

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