

RVenture
82090 TPMS Tire
Pressure
Monitoring System



RVenture 82090 TPMS Tire Pressure Monitoring System User Manual

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RVenture

RVenture 82090 TPMS Tire Pressure Monitoring System



RVenture TPMS Product Information

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.

Specifications

• Sensor Features

1. The sensors easily install on the valve stem, can be installed inside the wheel/tire assembly, or were 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.

Product Usage Instructions

Sensor Installation

Follow these steps to install the sensors:

1. Choose the installation location: valve stem or inside wheel/tire assembly.
2. Ensure the sensors are securely installed.
3. Select the sensor location on the display unit.

Display Installation & Charging

To install and charge the display:

1. Mount the display using the magnetic dock on a smooth surface.
2. To charge, plug the USB power cord into the 12v power adapter and then into the vehicle's power port.

3. The battery icon on the screen indicates the charging status.

System Default Settings

The default settings include pressure units, temperature units, and alert thresholds for various tire positions.

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	
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.

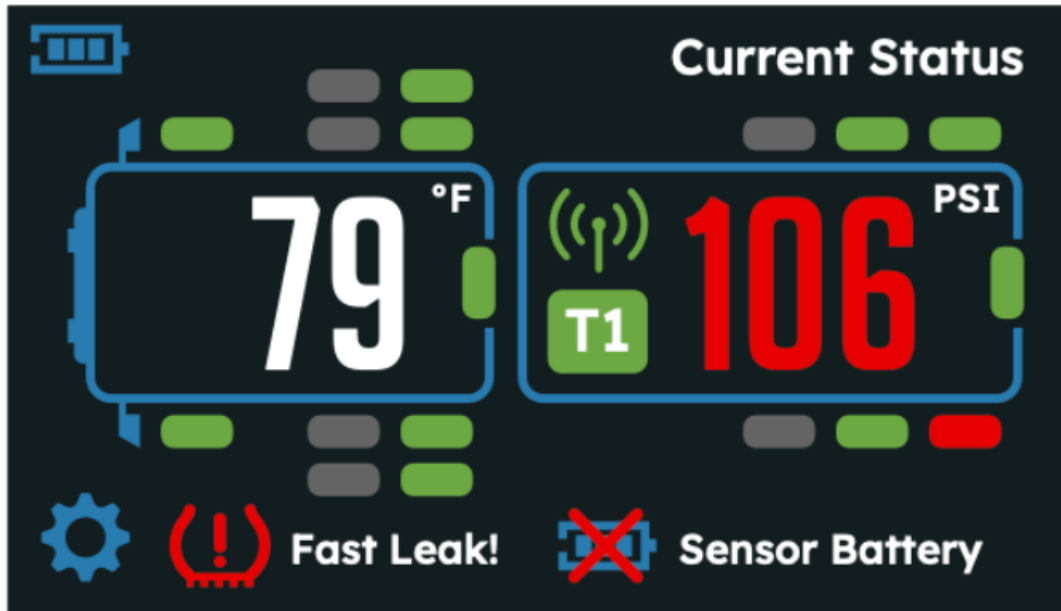
Example Scenarios	
Steer Axle	CTP of 100 PSI
Axle 1 High Alert	125 PSI (100 PSRI CTP x 125% = 125 PSI)
Axle 1 Low Alert	90 PSI (100 PSI CTP x 90% = 90 PSI)
Drive Axle	CTP of 110 PSI
Drive Axle 2/3 High Alert	138 PSI (110 PSI Cap x 125% = 138 PSI)
Drive Axle 2/3 Low Alert	99 PSI (110 PSI CTP x 90% = 99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

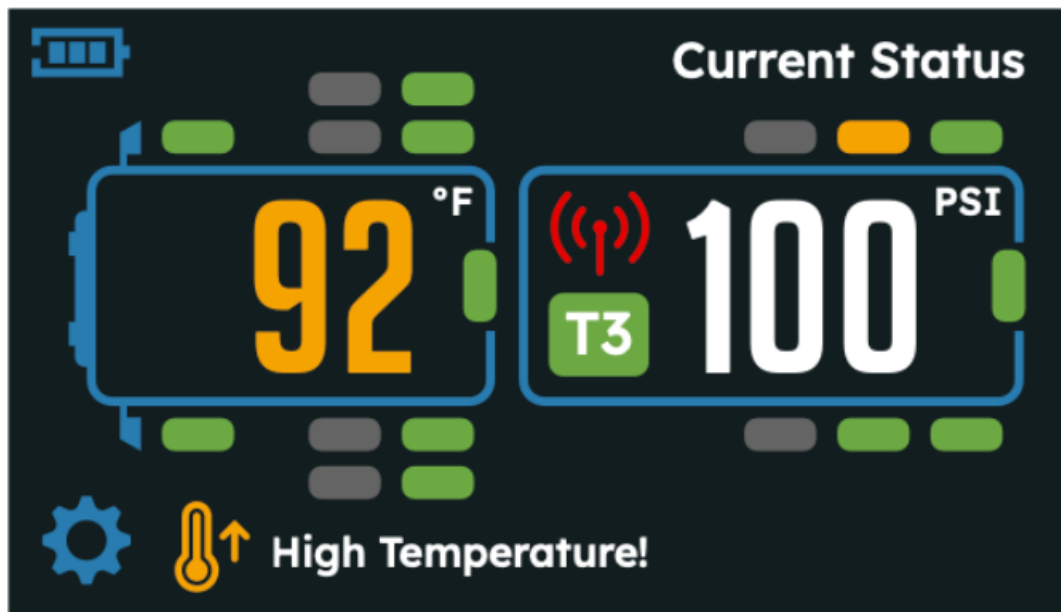
- Fast Leak Alert



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



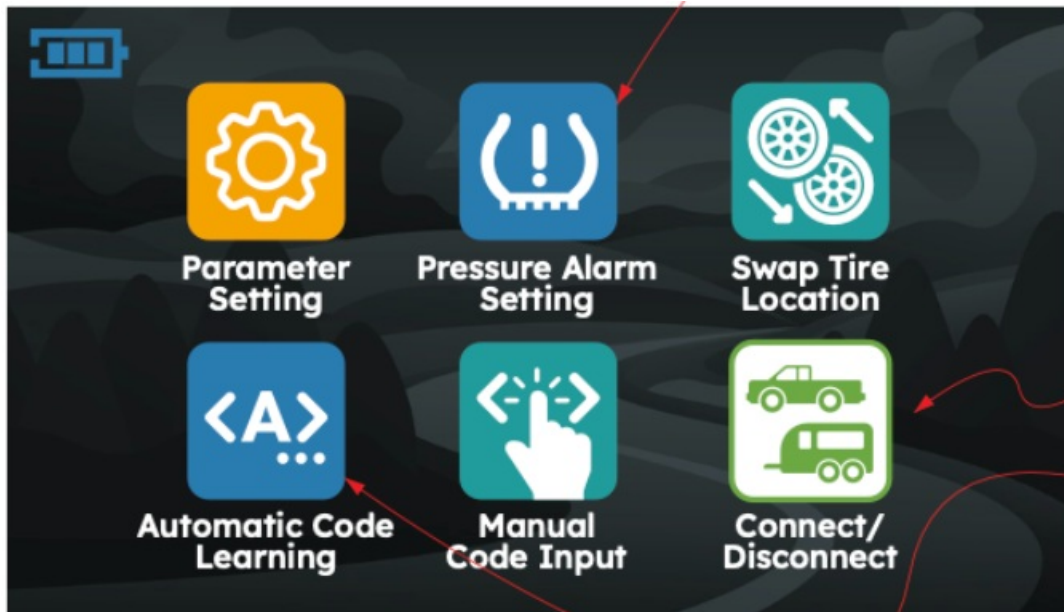
Example: High Temperature threshold is 1580 F.

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

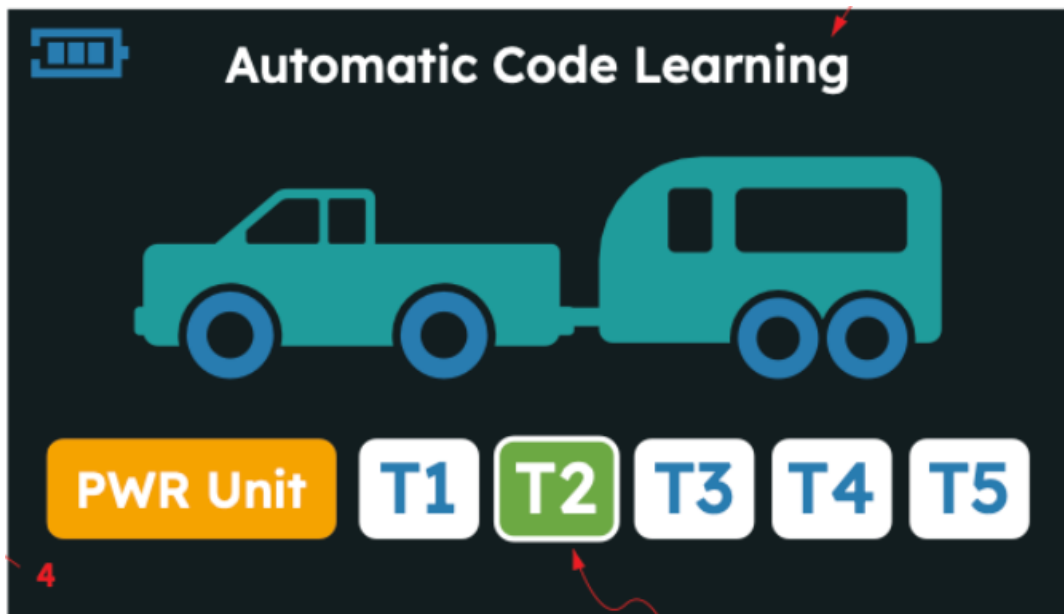
Adding Sensors

- 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.

Contact Us

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

www.phoenixworldwidellc.com

help@phoenixworldwidellc.com

FCC STATEMENT

Federal Communications Commission (FCC) Statement. 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: This equipment has been tested and found to comply with the limits for a Class B digital device under part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment uses and can radiate radio frequency energy, if not installed and used according to 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:

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

Warning: Changes or modifications made to this device not expressly approved by Black Swan Manufacturing Inc may void the FCC authorization to operate this device. **Note:** The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF exposure statement

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The device is installed and operated without restriction.

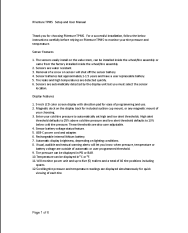
FAQ

What should I do if a sensor battery needs replacement?


If a sensor battery needs replacement, follow these steps:

1. Remove the screw on the sensor to shut it off.
2. Replace the user-replaceable battery with a new one.

Documents / Resources

	<p>RVenture 82090 TPMS Tire Pressure Monitoring System [pdf] User Manual 82090, 82090 TPMS Tire Pressure Monitoring System, TPMS Tire Pressure Monitoring System , Tire Pressure Monitoring System, Pressure Monitoring System, Monitoring System</p>
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References

-  [Phoenix Worldwide](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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