

VISION
Advanced Safety Systems™

30100VA

Tire Pressure Monitoring System

Owner's Manual



Leave The Pressure To Us™

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WELCOME

Thank you for purchasing our nVISION Tire Pressure Monitoring System ... the most sophisticated and robust TPMS technology available!

This product is designed to give you years of reliable performance. If you have any questions about this product, how to set it up or how to use, **do not return it to the dealer where you bought it.**

Instead, call our expert customer support team toll free at (800) 835-0129. Our team members are available between the hours of 8am to 5pm CST, Monday through Friday.

Note: It is important that you register your purchase to activate your warranty. Please complete the enclosed warranty registration form, or call our customer support team at the toll free number above.

YOUR NEW TPMS SYSTEM

Low tire pressure is the cause of 9 out of 10 tire failures. Your nVISION TPMS system is designed to monitor your tire pressures and relay warnings to you when your tires reach critical low pressure levels. We hope that you never experience a tire failure. But your nVISION TPMS will provide you with the notifications, pressures, and warnings you need to appropriately respond before a catastrophic failure.

We designed this TPMS system with several important advantages ...

Unmatched Tracking Capability – monitor up to 24 tires simultaneously with our tire pressure sensors. These sensors send Radio Frequency signals (RF) to our monitor located on your dash. The monitor displays tire pressures in your choice of PSI, kPa or BAR.

Unique 2-level Warning System ...

- **Poor Fuel Economy Warning:** When your tire pressure reaches 12.5% below normal, a yellow warning light and a beeping signal will notify you. Keeping your tires properly inflated maximizes your fuel economy and can extend the life of your tires.
- **Dangerous Low Pressure Warning:** When your tire pressure reaches 25% below normal, a red light will flash and a solid signal tone will notify you.

Multiple Memory Positions: You can set up to 4 different combinations of vehicles, motor homes, and trailers. This makes it simple for motor home owners to track their coach and towed vehicle tires while in transit, then transfer the monitor to their passenger car once they've established a base ... with a simple touch of button. The same is true for truck owners ... track your truck and trailer tires, drop off your trailer and switch to track just your truck ... or move from trailer to trailer at the touch of a button.

Do It Yourself Easy Installation – the sensors replace the tire valve covers and work with tires of almost any pressure level (from 10 PSI to 150 PSI). The monitor gives you a menu to select the exact tire configuration that matches your driving and towing situation.

nVISION TPMS COMPONENTS

Your nVISION TPMS Has 5 Basic Components (See Illustration A)

1. A specially designed monitor that has a unique flip top to improve viewing angles.
2. A special non-skid pad designed for vinyl dash boards to prevent the monitor from sliding while driving. This locks into the bottom of the monitor housing.
3. An electrical cord to power the monitor. The cord plugs into a 12V outlet or cigarette lighter.
4. Four (4) electronic tire pressure sensors. Note that additional sensors can be purchased separately for additional tires. We recommend that you also purchase a sensor for your spare tire to ensure you have a replacement should you ever experience a tire failure.
5. An antenna that will attach to the monitor base.

Illustration A: System Components



1. Monitor



2. Non-Skid Pad



3. Power Cord



4. Sensors



5. Antenna

WARNING LIGHTS

On the face of the display you will find 3 different colored lights (See Illustration B). These lights are designed to provide a quick reference to the status of your tire pressures.

We recommend that while the green light is lit, which indicates that all tires are reporting normal tire pressures, you keep the monitor display closed. This will minimize driver distractions.

-  When all tires are properly inflated, the green light will remain lit on the face of the monitor. This signals that you're good to go and that you don't have a tire pressure problem, so there is no need to open the display. We designed it this way for your added safety ... to minimize driver distraction.
-  Should any tire fall 12.5% below normal pressure, the green light will be replaced by a flashing yellow light. A tone signal will beep for 5 seconds to ensure that you are aware of the low pressure situation.
-  Should any tire fall 25% below normal pressure, the green light will be replaced by a flashing red light. A continuous tone will signal for 5 seconds to ensure that you are aware of the low pressure situation.

Illustration B: Warning Lights



MONITOR POWER BUTTONS

There are two buttons on the monitor face (See Illustration C).



Off/On Button: When the monitor is plugged into a 12 volt DC power source, pushing this button will power on or power off the monitor. For best results, we recommend that you always leave your monitor on. This provides a continuous monitoring connection with your tire sensors. If you are just powering up the monitor, it may take a couple of minutes for the connection between the sensors and monitor to be reacquired.



Mute Button: This button allows you to mute and unmute the warning signal. Should a pressure warning notification be sent, the corresponding lights and signal will sound. Pressing the mute button silences the warning tone.

Illustration C: Monitor Face Buttons



NAVIGATION AND CONTROL BUTTONS

Press the quick-release button on the right side of the monitor and the display screen will open (See Illustration D). Beneath this screen are your navigation and control buttons (See Illustration E).

These buttons are used to program, edit or change settings, select different memory positions and navigate through each tire to verify the exact pressure level by tire.

When you power up your nVISION TPMS for the first time, it has been designed to automatically begin in programming mode. See **Initial Set Up** for details on how to program your system.



Program Button: Pressing this button switches your system from monitoring mode to programming or editing mode. Program mode allows you to choose or edit the basic tire configurations of each memory position, as well as the type of pressure displayed (PSI, kPa or BAR).



Navigation Buttons: Your monitor has 4 arrow keys that allow you to move through different configuration options, as well as browse from tire to tire.



Select Button: This button confirms your selection, as well as allows you to exit programming mode when you have completed your initial programming steps.



Undo Button: Should you make a selection and decide you want to change it - no problem. Pressing the Undo button in program mode will undo the current selection and allow you to navigate through other options.

Illustration D: Quick-Release Button



Illustration E: Navigation and Control Buttons



DISPLAY SCREEN

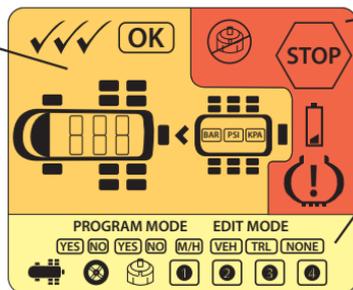
The LCD screen has been designed to provide you with an exact match to the tire configuration for your driving and towing situations. It gives you the power to view the exact pressure of each tire from the comfort of your driver's seat ... whether you're moving or stationary ... and regardless of weather conditions.

Note: Your nVISION TPMS will not prevent tires from losing pressure or failing. However, low tire pressure can nearly always be recognized before tires fail. Your new system is designed to provide notification when tires reach two different levels of critical low pressure inflation.

The screen is organized into 3 basic areas:

Normal Operating Mode

displays your vehicle configuration, shows active pressure checking and "OK" tire pressure status when all tires are reporting normal pressures



Warning Notifications

displays the various warnings provided by your nVISION TPMS

Programming / Edit Mode Status

displays the programming step that is active as well as the current memory position. When changing settings, the EDIT MODE will display

EDITING SETTINGS

You may want to occasionally change your initial memory settings. For example, you may acquire a new vehicle or trailer.

Changing Memory Position Settings

Changing or editing a setting begins with pressing the Program Button  on your monitor. Use the arrow keys to move to the Memory Position you want to edit and press "OK". You have entered Edit Mode. The Vehicle Icon in the lower left hand side of the display will be illuminated. Use the arrow keys to toggle through available configurations. If you don't want to change your vehicle or towed vehicle configuration, push .

Adding/Deleting Tires or Sensors

Once you have completed your vehicle/towed vehicle selections, you will be able to add or delete specific tire or sensor locations. There are two icons in the program field. One shows a wheel, which allows you to add or delete a tire. The second is a sensor icon, which lets you add or delete a sensor.

• Adding Or Deleting A Tire

To add a tire, cursor to that specific tire, press "OK." This will illuminate "Yes/No." Cursor to "Yes" and press "OK" to add a tire. By moving your cursor to "No", you can delete that tire location and confirm by pressing "OK."



• Adding Or Deleting A Sensor

To add a sensor, cursor to that specific tire, press "OK." This will illuminate "Yes/No." To add, cursor over "Yes" and confirm by pressing "OK." Install sensor on corresponding tire and wait for correct tire pressure reading. Press "OK" to confirm and to accept tire and sensor.

To delete, select "No" and press "OK."

INITIAL SET UP

We have designed this TPMS system to be easy as 1-2-3 to set up and use everyday. Your nVISION TPMS is completely wireless, no tools are required for installation.

Before you power up your TPMS system for the first time, you will need to install the antenna (See Illustration F). You will find an antenna port in the back of the monitor. Screw the antenna into the port. Be careful not to over-tighten the antenna.



Illustration F: Installing Antenna

▶ Step 1

Your nVISION tire sensors have been designed to accommodate tires from 10 PSI to 150 PSI. They work by establishing a baseline pressure level for each tire during the initial installation process. All future tire pressure readings will be compared to this baseline level.

Note: It is critical that you make sure that the tire pressures are at the proper level before installing your sensors. For best results, we recommend that you install your TPMS system in the morning, before the tires have been moved or driven. We refer to these tires as “cool”, and they provide the best reference for baseline pressures.

Step 2

Your TPMS system gives you the option of displaying tire pressures in three different ways ... PSI, kPa or BAR. After you have powered-on the monitor, it will ask you to select the pressure reading type you prefer.

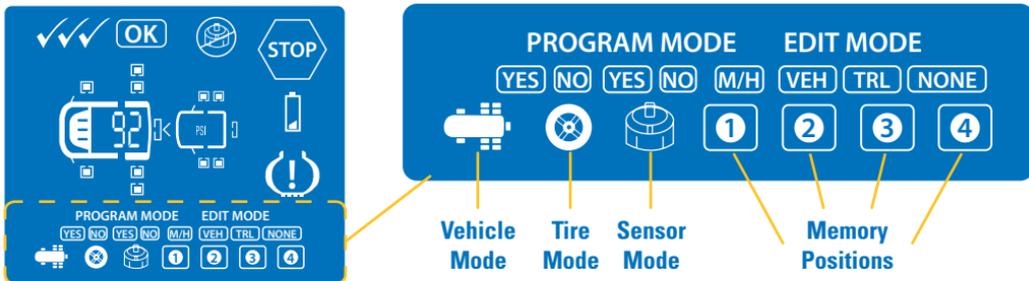
The default pressure type is PSI. To select this option, press your “OK” navigation button to confirm this choice. If you prefer kPa or BAR, use the arrow keys to move to your desired option. Then press “OK” to confirm your selection. The nVISION TPMS system will automatically remember this selection for all 4 memory positions.

This system has been designed to display an exact match to your driving configuration. The monitor will guide you through the steps of finding and selecting these pre-programmed options.

You are now in programming mode for Memory Position 1. To help you remain oriented, you can see the icon of a vehicle in the PROGRAMMING MODE area (See Illustration G).



Illustration G: Programming Mode



Each memory position provides both a front vehicle (e.g., a motor home or vehicle) and a towed vehicle or trailer.

- For the front vehicle, you can choose either a motorhome wheel configuration or a regular vehicle (truck or car).
- Use the arrow keys to scroll through your vehicle options and press “OK” to confirm. Illustration H shows the types of front position vehicle options that are available in your menu.
- When you find the appropriate vehicle wheel configuration, press the “OK” button to confirm that selection.

Tip: We recommend that you program your most common driving configuration into Memory Position 1.

Once you confirm your vehicle selection, the program will automatically advance to the rear vehicle or trailer type.

- If you don’t have a towed vehicle or trailer for this memory position, use the arrow keys to cursor over to the NONE option. Pressing “OK” will confirm this selection.
- If you have a towed vehicle or trailer, first select vehicle or trailer, then use the arrow keys to scroll through your menu of wheel configuration options. You can find a guide in Illustration I.
- When you find the appropriate tire configuration, press the “OK” button to confirm that selection.

Illustration H: Front Vehicle Configurations

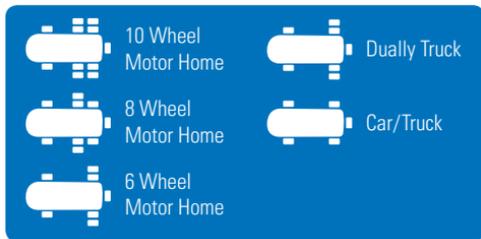
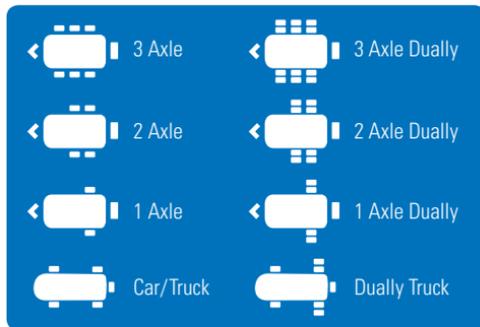


Illustration I: Trailer/Vehicle Configurations



Step 3

You are now ready to install the tire pressure sensors. Your nVISION TPMS system is designed to guide you through this process by flashing each tire location, one by one.

It is critical that you place the sensor on the tire that corresponds to the flashing tire on the monitor. The system will store this specific sensor location into memory. If you don't put the sensor on the corresponding tire location, the pressure will be read and reported properly, but the display will not provide the correct tire location.

You will notice that the program mode is now displaying the Sensor Icon. This indicates that it is looking for you to install your sensors.



The program begins with the left front tire (notice that tire is flashing on the monitor). To install the sensor, remove the existing valve stem cover and simply screw the sensor onto the valve stem being careful not to cross thread it. The sensor is designed to depress the dill valve inside the stem (See Illustration K). This releases the pressure inside the tire into the sensor where it is constantly measured. Maintaining a proper seal between the sensor and the valve stem is critical to maintaining the proper pressure in your tire.

Illustration J:
Tire Valve Stem Components

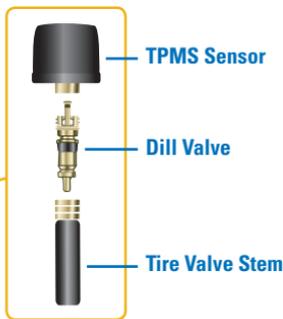
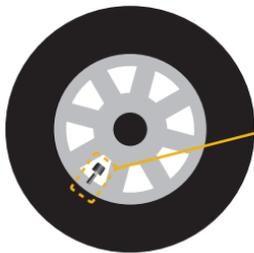
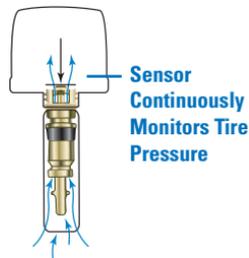


Illustration K:
Sensor Depressing Dill Valve



Important: If you don't verify that you have a good seal, air will escape from the tire. To prevent an air leak, be sure to tighten the sensor using fairly light pressure. When the sensor no longer turns, grip the sensor firmly and turn it 1/16th of a turn further. You will feel the resistance increase. But do not over tighten as you can strip the threads.

Like all mechanical products, tires need regular check ups. If you have not checked the valve stem and its internal components lately, you will want to do so before you install the sensor. Refer to the **Tire Safety** section of this manual for more details and suggestions for getting the most from your tires. After all, the most important things in life are riding on them!

Screwing the sensor on the valve stem activates the sensor signal. It usually takes about 30 seconds for the system to establish an electronic signature between your monitor and each sensor. Depending on the environment (buildings, electronic interference, etc.), this initialization process could take a couple of minutes. When the monitor displays the correct tire pressure, use the arrow keys to press the “OK” button to confirm this sensor.

Note: It is critical to verify that you have an air-tight seal between your sensor and the valve stem. While you’re waiting for the electronic signatures to be completed, we suggest that you use a mixture of soap and water to verify the seal. Simply pour a small amount of the solution over the valve stem. If the seal is not air-tight, a bubble will develop. If you have a bubble, first try to tighten the sensor just a little more. Test again. If that does not resolve the leak, you should check your dill valve (see the Tire Safety section for details about adjusting or replacing the dill valve).

When the monitor displays the correct tire pressure, use the arrow keys to press the “OK” button to confirm this sensor. If the correct pressure does not display within 5 minutes, please call our Technical Support Team toll-free for more assistance at (800) 835-0129.

When you confirm the tire pressure, the program will automatically advance to the next tire. Move to the corresponding tire and complete the same sensor installation procedure. Continue until you have completed the installation of sensors on all tires for Memory Position 1.

Repeat the same steps for the remaining Memory Positions. If you don’t want to establish additional Memory Position configurations, simply use the arrow keys to cursor over to NONE and confirm by selecting this choice for the front vehicle. The program will advance to the next step.

Note: Our system is unique in that it establishes a specific electronic signature between the sensor and the monitor. If you are using the same vehicle or trailer in subsequent memory positions, you will need to remove the sensors for at least 2 minutes to “blank out” the previous signature.

NORMAL OPERATION

Once you have completed programming your Memory Positions, your system will enter normal operating mode. Your TPMS system will begin checking tire pressures. You will see the a series of check marks illuminate in the top left corner of the display screen. These checks indicate that your TPMS system is reestablishing the RF connections with each sensor and verifying tire pressures. When all pressures report at normal levels, checking will stop and you will receive a notification of “OK” that confirms normal pressure for all tires. Until your monitor confirms all pressures are reporting normal, you will see a blinking yellow light on the front of the monitor case. When all tires are confirmed as OK, your monitor will illuminate the green light.



If you have turned your monitor off, you will need to turn it on to begin the normal operation mode. Note that from the off position, your TPMS system will need to reestablish the RF signature for each sensor for the Memory Position last used. This process could take up to 5 minutes depending on the communication cycle of the sensors. When the monitor reestablishes RF connections, the monitor will display a yellow light, to indicate that it has yet to verify all tire pressures.

Tip: We recommend that once your system is operating, you leave it plugged in and turned on. This ensures that you have a continuous monitoring of all tires.

Changing Your Memory Position

If your driving situation has changed since you last used your TPMS system, you will want to update Memory Position.

Open the monitor display, press the Program Button  and use the arrow keys to move to your desired Memory Position. Press  to confirm your selection and exit programming mode. Your system will begin checking all tires. When all tires report within normal pressure ranges, the green light will illuminate.

CAUTIONS AND WARNINGS

If your system determines that one or more of your tires is reporting pressure below normal, you will receive a warning notification. Your nVISION TPMS has a unique 2-level warning system.

Level 1: Poor Fuel Economy

At 12.5% below the baseline pressure level, you will receive a Level 1 alert. The yellow light on the face of the monitor will begin to flash and will flash continuously until the low pressure condition has been resolved. To ensure that you are aware of the alert, a corresponding signal tone will sound with the yellow light. It will beep for 5 seconds. If you want to silence the warning signal, simply press the mute button adjacent to the yellow flashing light. The display screen will show the accepted symbol of low tire pressure.



Tires 12.5% low are not considered dangerous, but you may begin to notice a slight deterioration in vehicle handling. Certainly, you will be experiencing reduced fuel economy. In addition, you will be creating excessive tire wear.

If you receive a Level 1 alert, we suggest that you get off the road at the first convenient opportunity and air up the tire(s) to proper levels.

If you want to see which tire or tires have experienced a pressure loss, open the display screen. Tires with low pressures will flash. If you have only one low tire, the monitor will display that tire, along with the current tire pressure. If you have more than one tire 12.5% below normal pressure, all low tires will flash. You can use the arrow keys to review the pressure levels in each tire.

Level 2: Dangerous Pressure Level

At 25% below the baseline pressure level, you will receive a Level 2 alert. The red light on the face of the monitor will begin to flash and will flash continuously until the low pressure condition has been resolved. To ensure that you are aware of the alert, a continuous signal tone will sound with the red light for 5 seconds. If you want to silence the warning signal, simply press the mute button. The monitor display will also illuminate a stop sign to indicate the dangerous driving condition.



Tires 25% low are considered *dangerous*. You will feel a deterioration in control and performance. It is imperative that you exit the roadway at the first safe opportunity. You should immediately air up the tire(s) to proper levels.

If you want to see which tire or tires have experienced a pressure loss, you can open the display. Tires with critically low pressures will flash. If you have only one low tire, the monitor will display that tire, along with the current tire pressure. If you have more than one tire below normal pressure, all low tires will flash. You can use the arrow keys to review the pressure levels in each tire.

Missing Sensor

There are several possible reasons for a missing sensor. If your system loses communications with a sensor, this will trigger a Level 1 alert with the yellow flashing light and beeping signal. The Missing Sensor icon will illuminate on the screen. To determine which sensor is missing, open your display screen and you will see a missing sensor icon flashing. In addition, the tire position of the missing sensor will also flash. If the RF signal connection has been interrupted, it could take several minutes to reestablish the signature.



Note that your nVISION TPMS has been designed to provide you with a warning for low sensor battery levels. Approximately 2 weeks prior to expiration, the sensor will send a notification to the monitor indicating low battery. This will trigger the yellow alert and the display screen will illuminate the low battery icon.



RADIO FREQUENCY SIGNALS

RF (Radio Frequency) signals are commonly used in wireless devices. The RF frequencies in your nVISION TPMS system conform to all FCC Rules.

The RF system in your TPMS device has been designed to use normal objects in the environment to reverberate signals from the wheels to the monitor. In normal use, most environments will provide the necessary impediments to reverberate signals.

You may have occasion where an absence of objects on one side of your vehicle may not allow certain sensor signals to be received by the monitor. If this should happen, you will receive a missing sensor signal. While this error is likely to be rare, it can occur.

Different vehicles and longer distances can also affect the quality of your signal reception. If you are experiencing excessive missing sensor notifications, we recommend you add an nVISION Repeater. This is available at a modest additional cost through our Customer Care Team (800) 835-0129.

FCC COMPLIANCE

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.

WARNING: Changes or modifications to this unit 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
- Contact our toll free customer care support at (800) 835-0129
- Consult an experienced radio/TV technician for help.

FCC Related Inquiries Contact:

Engineering Manager
Hopkins Manufacturing Corporation
428 Peyton
Emporia, KS 66801
(620) 342-7320

TIRE SAFETY CHECKLIST

So much is riding on your tires, that it makes sense to give them regular check ups. Below find a list of what you can do to get the most performance and safety out of your tires!

1. Use your nVISION TPMS to check tire pressure regularly, including the spare.

- Low tire pressure reduces your fuel economy and can lead to tire failure.

2. Inspect tires for uneven wear patterns on the tread, cracks, foreign objects, or other signs of wear or trauma.

- Have your alignment checked if you see uneven tread wear.
- Have your tires checked if you see cracking in the side walls.
- Check your valve stem to make sure the rubber base does not show signs of wear and that it is firmly in place.
- Remove bits of glass and other foreign objects wedged in the tread.
- Replace tires that are worn or balding.

3. Pay attention to the feel of the vehicle. If you feel a shimmy while driving, you may have lost a weight, causing a tire to go out of balance.

4. Before you tow ...

- Check the tire information placard or owner's manual to make sure that you don't exceed the maximum recommended load for the vehicle or trailer.
- If you are towing a trailer, remember that some of the weight of the loaded trailer is transferred to the towing vehicle.

FREQUENTLY ASKED QUESTIONS

We want you to get the most from your new TPMS system. These FAQs have been designed to address experiences common to all TPMS owners.

How do I reset my baseline tire pressure?

Option 1: You can delete the sensor (see Adding/Deleting Sensors, page 11).

Option 2: You can remove the sensor from the valve stem for 60 seconds. This will “blank out” the previous baseline reading and allow the system to accept a new baseline value. Screw the sensor back on the valve stem. Select “OK” and it will establish a new baseline value.

What do I do with the sensors when I rotate my tires?

Rotating your tires is an important part of ensuring even tire wear and maximizing your tread life. We suggest that you create a wheel diagram of your vehicle or trailer. Remove all sensors and position them on the corresponding location, e.g., place the sensor from the left front tire on the corresponding paper where you’ve drawn the vehicle. After you have rotated the tires, simply return the sensors to the proper location, i.e., left front sensor to the new left front tire. This will ensure that the display keeps the sensors in the identical position on the monitor.

Should I remove the sensors if I store my vehicle or trailer?

If you’re going to store your vehicle or trailer for more than 30 days, we recommend that you remove the sensors. Screwing the sensors onto the valve stems triggers the sensor to send signals. Removing them will help preserve the battery, giving you the longest possible battery use.

Tip: An old egg carton is an ideal place to store your sensors. Remember to label your sensors to return to the same tire location.

How long will my sensor batteries last?

Battery life is a function of many factors. Commonly, batteries in your sensor will last 4 years. If you experience excessive warnings, your battery life may be shorter. Similarly, it is possible to have longer battery life if you have placed less energy demands on the sensor.

Can I replace the sensor batteries?

Your sensors have been designed to withstand extreme conditions for temperature, vibration and moisture infiltration. To ensure that the pressure sensors have the highest reliability, the sensor housing is permanently sealed. Batteries cannot be replaced. When your sensors expire, simply purchase a new nVISION TPMS sensor replacement.

Can I store my vehicle with the monitor on?

Yes. And we recommend that you do. The monitor draws a modest 25mA of power. That's minimal for normal driving situations. If storing for more than 1 month, it's advisable to unplug the monitor and remove all sensors (see "Tips" section, page 18). Plug in monitor and replace sensors before driving again.

Can monitor be used independently on front/back tow-vehicle?

Yes. The monitor is intended to be transferable to any vehicle.

Why doesn't my monitor turn on?

Make sure the lighter receptacle has power. Some vehicles only have power when the vehicle is running. Check that the power cord is plugged in securely to the receptacle on the monitor. If the cigarette receptacle is always "hot", be sure all connections are secure.

A red LED light on the power cord plug is lit when cord is powered. Check fuse located in the lighter plug-in end of the cord by unscrewing the black ring at the silver tip of the plug. Replace only with a 1 Amp fast-blow fuse. Check the vehicle fuse controlling the power source.

If I unplug or lose power, must I reprogram the monitor?

No. Saved memory position settings are retained. Monitor will display 3 dashes (- - -) until sensors send a new updated reading within its normal 5-minute reporting period.

When do my sensors transmit?

Sensors will transmit data under the following conditions:

1. Within 60 seconds of screwing sensor onto the valve stem.
2. Every 5 minutes while updating, under normal conditions.
3. At a 12.5% drop from baseline pressure, sensors report continually.
4. At a 25% drop from baseline pressure, sensors report continually.

What do I do about a low sensor battery alert?

When you receive a low sensor battery alert, contact your dealer/distributor. If within the warranty period, the sensor should be returned for replacement. Contact nVISION Technical Services (800) 835-0129 for information.

How do I delete a sensor?

Refer to “Deleting a Tire/Sensor” from EDIT MODE section (see page 11).

Can I delete all sensors at once?

You may delete an entire memory position in edit mode by choosing “NONE” for front vehicle core and shut off pressures in valve stems.

What should I do if a sensor is lost or damaged?

Contact your local dealer or nVISION Technical Services (800) 835-0129 to order a new sensor.

During installation, no signal was received from the sensor.

Higher RF transmissions propagate mostly via straight lines and along line-of-sight pathways. If a sensor fails to give a pressure reading, move the monitor slightly, reposition the antenna and try again.

Can I use a sealant or equalizer powder in the tire with nVISION TPMS?

It's recommended to use a filtered dill valve if using sealants or equalizing substances. Sealant can plug up the valve core and shut off pressures in valve stems.

Tire pressures while driving go up - do I need to do anything?

No. While driving, tires become hot, increasing pressure. A pressure increase of 10% to 20% is common, especially in hot weather at high speeds.

Do I need to rebalance my tires when using a sensor?

The 2/3 oz. sensor, on large tires (RV/Truck), seldom necessitates that tire balance be reassessed. Smaller tires may require adding a ½ oz. weight opposite the sensor.

Can I remove the sensors when I add air to my tires?

Yes, you can remove the sensors to add or remove air from your tires. Monitor will display “0” reading. Removing sensors for 60 seconds allows a new “BASELINE” reading to be accepted. Note that you must replace the sensor within 60 seconds or you will reset the baseline pressure to the current level of the pressure in the tire.

What happens if the installation process is interrupted?

If you are interrupted during the installation process, you will have 10 minutes to resume the installation. If you wait 10 minutes or more, the program options you have chosen will be lost and you will have to reprogram the system.

How can I completely clear my settings?

To clear all settings, press the Program button  and “OK” while simultaneously plugging in the power cord.

What should I do if I frequently have missing sensors?

There are some situations where the distance between the sensors and monitors, along with the nature of the vehicles and trailers involved, create reception problems for the RF system. If you frequently experience missing sensors, contact our customer service team at (800) 835-0129. They will be able to sell you a signal boosting repeater.

Why does my monitor screen go blank after a few minutes?

Your nVISION TPMS monitor has been designed with an energy saving feature. After 3 minutes of inactivity, the monitor will go into sleep mode. To awaken the monitor, press any button.

Why am I receiving excessive low pressure alerts?

It is critical that when you establish your baseline pressures, that your tires be at the manufacturer's recommended pressure level, that the tires be cold and vehicle or trailer not have been moved. It is best to install your sensors early in the morning.

If you are receiving excessive warnings and alerts, it could be that you installed your sensors after moving your vehicle or trailer, or waited until a warmer time of day.

To remedy this problem, remove and reinstall the sensors one by one. You must remove the sensor for 60 seconds in order to establish a new baseline pressure. Of course, we recommend you verify that the tires have the proper air pressure and that you install these in the morning before you move the vehicle or trailer.

Tip: We recommend that once your system is operating, you leave it plugged in and turned on. This ensures that you have a continuous monitoring of all tires.

WARRANTY INFORMATION

ONE YEAR LIMITED WARRANTY: Subject to the limitations and exclusions set forth in this Limited Warranty, nVISION TPMS is warranted by Hopkins Manufacturing Corporation against defects in material or workmanship that result in a product failure during the one-year period following the date of purchase. This Limited Warranty applies only to claims made by the original end user (hereinafter “you”) and cannot be assigned, transferred or conveyed to any subsequent users.

EXCLUSIONS FROM COVERAGE: This warranty does not apply to any claims arising from misuse, abuse, unauthorized repair or alteration, circumstances where nVISION TPMS is improperly installed or improperly wired contrary to nVISION TPMS product instructions; or damage or defect attributable to fire or other casualty, including, without limitation, acts of God or exposure to abrasive or corrosive materials or pollutants, or attributable to collision or other accidents involving vehicles upon which the nVISION TPMS is installed.

LIMITATIONS: Hopkins Manufacturing Corporation expressly limits the applicability of the implied warranty of merchantability and the implied warranty of fitness for a particular purpose to the one-year warranty period as provided herein. Some states don't allow limitations on how long an implied warranty lasts, so the above limitation may not apply.

To the extent permitted by state law, the remedy of repair or replacement discussed below is the sole remedy available to the end user under this Limited Warranty. THIS LIMITED WARRANTY SPECIFICALLY EXCLUDES ALL INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. To the extent permitted by state law, Hopkins Manufacturing Corporation liability for nVISION TPMS will not exceed the purchase price paid for the product.

NOTICE: This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

EXCLUSIVE AGREEMENT: To the extent permitted by state law, this **one-year limited warranty** is a complete and exclusive statement of the warranties, which apply to the nVISION TPMS; there are no express or implied warranties beyond those expressly stated above. No employee, agent, dealer or other person is authorized to give any warranties on behalf of Hopkins Manufacturing Corporation, except as authorized in writing.

STATUTE OF LIMITATIONS: To the extent permitted by state law, in purchasing the nVISION TPMS you agree that any action for breach of contract or warranty must be commenced within one year after the cause of action has accrued.

PROCEDURE: In the event that a product failure covered by this warranty occurs while this warranty is in effect, Hopkins Manufacturing Corporation will, at its option, either: (a) repair the defective unit; (b) replace the defective unit with a new unit; or (c) replace the defective unit with a refurbished unit. Hopkins Manufacturing Corporation will ship your repaired, new, or refurbished unit to you without charge for parts, service, or any other cost (except shipping and handling) incurred by Hopkins Manufacturing Corporation or its representatives in connection with the performance of this warranty. Failed units covered under this warranty must be sent by you to Hopkins Manufacturing Corporation with shipping prepaid by the sender. You are responsible for all costs incurred in the removal, reinstallation, and shipping of the unit. A copy of the sales slip received by you at the point of purchase of the unit must accompany the returned unit. Call Hopkins Manufacturing Corporation for Warranty Return Authorization.

**For Warranty Return Authorization
Call: Hopkins Manufacturing Corporation
Toll Free: (800) 835-0129**

SYSTEM SPECIFICATIONS

SENSOR

Sensor Transmit Range	Approx. 75 feet (Line-of-Sight)
Operating Frequency	433.92 MHz FM
Operating Temperature Range	-30°C to +85°C
Sensor Weight	Approx. 2/3 oz.
Sensor Dimensions	1.01" H x 1.11" Dia.
Sensor Batteries	Internal, non-rechargeable
Sensor Pressure Range	10 to 150 PSI 68 to 999 kPa 1 to 9.99 BAR (+/- 5% range)
Sensor Low Voltage Shutdown	2.2 Volts

MONITOR

Monitor Power Requirements	12V DC; typically draws 25mA in standby Less than 150mA with LEDs on
Monitor Dimensions	4.25" W x 8.0" (including antenna) L x 4.5" (open) H
Monitor Weight	5.8 oz.
Monitor Power Cord Plug Type	Jack size – 3.5mm outer diameter & 1.35mm inner diameter
Monitor Tire Positions	1 to 24 wheel positions
Sensor Alarm Trigger Settings	12.5% and 25% below the original tire inflation level

nVISION TPMS - #30100VA

Hopkins Towing Solutions TPMS - #30200VA

nVISION TPMS systems comply with Part 15, Class B of the FCC Rules.

US Letter Patent # 6,453,737

TIRE PRESSURE MONITORING SYSTEM



CORPORATE OFFICES

Hopkins Manufacturing Corporation
428 Peyton
PO Box 1157
Emporia, KS 66801

WARRANTY AUTHORIZATION

For Return Authorization
On All Warranty Issues
(800) 835-0129

PRODUCT/INSTALLATION QUESTIONS

Technical Support
(800) 835-0129