

Owner's Manual

Leave The Pressure To Us

GETTING STARTED

It is important to read and understand your owner's manual. It contains valuable information as well as tips or suggestions for getting the most from your new TPMS System.

There are 3 basic installation steps:

- 1. Make sure you have the correct pressure in your tires before you install the system. It is best to install the system in the morning when your tires are cool.
- Turn on the monitor and scroll through the vehicle options that match your exact tire configuration. Press the "OK" button to select.
- 3. The system will ask you to install sensors one-by-one for each configuration. Locate the tire that corresponds to the blinking tire symbol on your monitor. Screw the sensor on. When the pressure registers correctly, press "OK". You have established a unique electronic signature for that tire. Follow the prompts for all other tires.

Your nVISION® TPMS has a unique memory feature that allows you to store other configurations (trailers, vehicles, motorhomes, etc.). Follow the same set up procedures for up to 4 memory positions.

That's it! Simple. Straight-forward. You're now ready to roll....enjoy and be safe!!

TABLE OF CONTENTS

Welcome	5
Your New TPMS System	
nVISION® TPMS Components	7
Monitor Power and Volume Control Buttons	
Navigation And Control Buttons	9
Display Screen - Alerts	
TPMS Warnings	
Major Programming Steps	
Initial Set Up	
Normal Operation	
Editing Settings	
Radio Frequency Signals	
FCC Compliance	
Tire Safety Checklist	
Frequently Asked Questions	
Warranty Information	
System Specifications	

WELCOME

Thank you for purchasing our nVISION $^{\mbox{\tiny B}}$ Tire Pressure Monitoring System \ldots 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 tech service team is 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 visit www.nVisionSafety.com to complete the warranty registration form, or call our customer support team at the toll free number above.

YOUR NEW TPMS SYSTEM

Your nVISION® TPMS is designed to detect and notify you of changing tire conditions. 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.

NEW and IMPROVED TPMS system offers several important advantages....

Not Just a Low Pressure Monitoring System... Now alerts you of high pressure (24% above your baseline pressure) and reports high temperature of your tire(s) when your tire exceeds 157° F.

Fastest and Easiest To Use TPMS on the Market! NEW System Logic allows you to install your system in minutes. The sensors replace the tire valve covers and work with tires of almost any pressure level (from 10 PSI to 200 PSI). The monitor gives you a menu to select the exact tire configuration that matches your driving and towing situation. NEW! Buttons simplify set-up, adjusting memory positions and editing sensors. With the touch of a button customize your TPMS the way you want! Your TPMS also comes equipped with our Quick-Set[™] Installation Cord that powers the monitor during installation ... no more trips in and out of your vehicle.

nVISION® TPMS COMPONENTS

Your nVISION® TPMS Has 6 Basic Components

- 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 12-volt 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. A pivoting antenna that will attach to the monitor base.
- 6. Quick-Set[™] installation cord that plugs into the front of the monitor for power. This helps install your system in minutes. Requires a 9-volt battery (not included) to work.



MONITOR POWER BUTTONS

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



On/Off 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.



Volume Button: This button allows you to adjust the volume and mute the system.

There are 4 sound levels:

Mute = Press Volume Button Once Low = Press Volume Button Twice Medium = Press Volume Button Three Times **High** = Press Volume Button Four Times

Pressing the Volume Button a Fifth Time recycles to mute. Keep pressing the (1) symbol until it is at the desired level





Illustration B: 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 to reveal your navigation and control buttons.



Vehicle Configuration

To initiate programming of all vehicle/trailer configurations

Position

To change the configuration of what vehicle you want to drive and/or tow

Undo

To erase programming choices or back up in the programming mode to previous selections

Edit Sensor

To enter a programmed vehicle configuration to add/delete sensors

Selection "OK"

Has up/down/left/right arrows with a OK push button in the center. This allows you to move the cursor to different options and confirm your selections. You can also use the arrows to check your tire pressures

DISPLAY SCREEN - ALERTS

The LCD 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 your tire conditions from the comfort of your driver's seat ... whether you're moving or stationary ... and regardless of whether conditions.

TIP: Your nVISION[®] TPMS will not prevent tires from losing pressure or failing. Your new system is designed to detect and notify you of changing tire conditions.



TPMS WARNINGS

Illustration C: Warning Lights



On the face of the monitor (Illustration C) you will find 3 different colored lights. These lights are designed to provide a quick reference to the status of your tires.

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

GREEN

Tires are reporting within normal range, maximizing fuel economy and tire tread life.

YELLOW ALERTS (Yellow Light Will Flash) These warnings do not need your immediate attention. Please get off the road at your next convenient stop.



Your nVISION TPMS has a unique 5-Level Alert System.

SAFE TIRE CONDITIONS: Properly inflated tires are safer, run cooler and last longer. Also, helps increase fuel economy and tire tread life by 50% or more. This alert means all tire all good. The GREEN light on the front of the monitor will be illuminated.

LOW PRESSURE: At 12.5% below the baseline pressure level, you will receive this alert. The YELLOW light on 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 volume control button to "MUTE" the sound of the alert. 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 12.5% below normal pressure, all low tires will flash. You can use the arrow keys to review the pressure levels in each tire.

DANGEROUSLY LOW PRESSURE: At 25% below the baseline pressure level, you will receive this alert. The RED light on 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 volume control button to "MUTE" the should of the alert. 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, open the display screen. Tires with dangerously 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 25% below normal pressure, all low tires will flash. You can use the arrow keys to review the pressure levels in each tire.

HIGH PRESSURE: At 24% ABOVE the baseline pressure level, you will receive this alert. The RED light on the monitor will begin to flash and will flash continuously until the high pressure condition has been resolved. To ensure that you are aware of the alert, a corresponding signal tone will sound with the RED light. It will beep for 5 seconds. If you want to silence the warning signal, simply press the volume control button to "MUTE" the should of the alert. The monitor display will also illuminate a HIGH PRESSURE ICON to indicate the dangerous driving condition.

Over-inflated tires cause uneven wear on the tread of your tires making your tires not last as long. You will also notice a decrease in vehicle handling and braking performance.

HIGH TEMPERATURE: At 157° degrees F or 69° C, you will receive this alert. The RED light on the monitor will begin to flash and will flash continuously until the high temperature condition has been resolved. To ensure that you are aware of the alert, a corresponding signal tone will sound with the RED light. It will beep for 5 seconds. If you want to silence the warning signal, simply press the volume control button to "MUTE" the should of the alert. The monitor display will also illuminate a HIGH TEMPERATURE ICON to indicate the dangerous driving condition.

Hot tires increase your risk of a blowout. If you receive this alert notification please exit the roadway as soon as possible and let your tires cool down.

MISSING SENSOR: There are several possible reasons for a missing sensor. If your system loses communication with a sensor, this will trigger the YELLOW light on the front of the monitor to illuminate. NO audible warning will alert you because while it is important to know you lost a sensor it does not require your immediate attention. 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

LOW BATTERY: Approximately 2 weeks prior to expiration, the sensor will send a notification to the monitor indicating low battery. This will trigger the YELLOW light and the display screen will illuminate the low battery icon.

has been interrupted, it could take several minutes to reestablished the connection.







MAJOR PROGRAMMING STEPS

- Insert Quick-Set[™] Installation Cord into the front of the monitor for power. System will default to PSI. At initial start up, unit will default to memory position #1
- Use arrow keys to scroll to correct vehicle configuration on tires, accept by a pressing "OK" when correct vehicle is displayed
- Mount one sensor at a time to tire valve stem, press "OK" button when the correct tire pressure is displayed, the monitor will advance to next tire, repeat steps to install sensors on remaining tires. On the last sensor after tire pressures is given press "OK" button to confirm.
- · Repeat for additional vehicles up to 4 memory positions
- After savings all needed memory positions the unit will automatically advance to vehicle position mode.
- After advancing to vehicle position mode. Select the position "FRONT" or "BACK" using the arrow. Press "OK" to confirm. Select the memory position you will use. Press "OK" to confirm your selection. You can scroll to "SAVE" and press "OK to confirm or add another vehicle to monitor.

INITIAL SET UP

We have designed this TPMS system to be the easiest to install and use on the market today. 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 attach the pivoting antenna. You will find an antenna port in the back of the monitor. Screw the pivoting antenna into the port. Be careful not to over-tighten the antenna.

TIP: The pivoting antenna provides flexibility and you can position to maximize signal strength from sensors to the monitor. Also, easily pivots to fit into tight compartments in your RV.





DEFINE MODE

Your nVISION® tire sensors have been designed to accommodate tires from 10 PSI to 200PSI. 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.

TIP: It is critical that you make sure that the tire pressure 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 as "cool", and they provide the best reference for baseline pressures.

you tire by tire for a faster and easier installation experience.

TIP: The Quick-Set[™] Installation Cord allows you to take the monitor with

Next, you will need to use a 9-volt battery (not included). Once you have the 9-volt battery, attach it to the Quick-Set[™] Installation Cord and insert

the cord into the front of the monitor for power.

After you have powered-on the monitor, the system will default to PSI for pressure type.

Your screen should look like this after powering the monitor with $\operatorname{Quick-Set}^{\scriptscriptstyle M}$ Installation Cord



Quick-Set[™] Installation Cord (9-volt battery not included)



TIP: We recommend that you program your most common driving configuration into Memory Position 1 and 2.

Press the arrow keys to scroll to the correct tire configuration for your vehicle. For example, If you have a 10-wheel motorhome scroll to this





Stop on correct vehicle configuration and press "OK" to confirm selection

REMEMBER: Please take your monitor with you to each tire using the Quick-Set[™] Installation Cord.

NOTE: 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.

The monitor will advance to sensor installation on the tires. You will begin with the left front tire. Please follow the diagram below when installing the sensors for your vehicle.



The front left tire will begin flashing. This is where the first sensor needs to be attached

Install the sensor

The "YES" icon on the screen will be flashing. Wait for the correct pressure to appear

Press "OK" after the correct pressure appears on the monitor

The monitor will advance to the next sensor location to install. Repeat the same steps to complete the installation on all tires you will be monitoring.

IMPORTANT: After you press "OK" on the last sensor in memory position 1, monitor will advance to memory position 2 to install your next vehicle or trailer configuration.

Press "OK" to move to Memory Position 2 and repeat the same steps as you did for Memory Position 1 to complete your installation.

Once you have installed all of your vehicles or trailers you wish to monitor. Use the navigational buttons and scroll to "SAVE" and Press "OK" to exit Define Mode and enter Vehicle Position Mode.







VEHICLE POSITION MODE

After saving your last memory position the system advances to Vehicle Position Mode. This mode is designed to let you select the EXACT vehicle configuration you wish to monitor.

"FRONT" icon is flashing, Press "OK"

Select the memory position you wish to monitor in the "FRONT" (The front vehicle will be located on the LEFT hand side of the screen in normal mode)

Press "OK" to confirm

"BACK" icon is flashing, Press "OK"

Select the memory position you would to monitor in the "BACK" (The back vehicle will be located on the RIGHT hand side of the screen in normal mode) Press "OK" to confirm.

If you only want to monitor 1 vehicle, select "FRONT" or "Back" for that vehicle. Then scroll to "SAVE and Press "OK" to advance to normal mode.

TIP: Only 1 "Front" and 1 "Back" Vehicle Configuration can be monitored at a time.

"SAVE" icon will be flashing on the screen. Press "OK" to save your vehicle configuration and advance to normal mode.







NORMAL OPERATION

Once you have completed programming your Memory Positions, your system will enter normal operating mode. Your TPMS system will begin checking your tires. You will see a series of check marks illuminate in the middle on the right side of the display screen. These checks indicate that your TPMS system is reestablishing the RF connections with each sensor and verifying tire conditions. When all tire conditions report at normal levels, checking will stop and 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



This is what your screen should look like in Normal Mode.

Positions 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 conditions.

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 VEHICLE POSITION

When in Normal Mode, Press the Vehicle Position Button on the monitor.

CAUTION: Pressing the Vehicle Position Button will clear all memory positions that have been saved in the "FRONT" or "BACK" Position



"FRONT" icon is flashing, Press "OK"

Select the memory position you wish to monitor in the "FRONT" (The front vehicle will be located on the LEFT hand side of the screen in normal mode) Press "OK" to confirm

"BACK" icon is flashing, Press "OK"

Select the memory position you would to monitor in the "BACK" (The back vehicle will be located on the RIGHT hand side of the screen in normal mode) Press "OK" to confirm.

"SAVE" icon will be flashing on the screen. Press "OK" to save your vehicle configuration and advance to normal mode.

When all tires report within normal tire conditions, the green light will illuminate.





22

EDITING SETTINGS

ADDING/DELETING SENSORS

Once you have completed your vehicle/towed vehicle selections, you will be able to add or delete specific tire or sensor locations. For example, you may need to change out a sensor due to a low battery. Follow the steps below to complete:

To add a sensor, Press the "Sensor Edit" Button on the monitor.

Move to the specific tire, press "OK"

This will illuminate "YES/NO". To add, "YES" will be flashing and confirm by pressing "OK". Install sensor on corresponding tire and wait for the correct tire pressure reading. Press "OK" to confirm and to accept sensor.

To delete, select "NO" and press "OK"

Press "Sensor Edit" Button to save and exit Sensor Edit Mode



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

WARNING: New autos manufactured over the last few years will include factory installed Tire Pressure Monitoring Systems. The valve stems of these TPMS units are made of aluminum. (Your vehicle will display on the dash display when the key is turned to ON if you have a TPMS system and it will be in your vehicle manual or contact your dealer. nVISION Sensors are made with brass threads. NOTE: brass will bond to aluminum due to the galvanic action that takes place between the different metals. When installing Sensors on vehicles with aluminum stems, carefully apply dielectric grease, (an anti-seize compound used on spark plugs) to the aluminum stem, being careful to apply only to the threaded area of the valve stem. Remove sensor(s) every 4 weeks to ensure that the aluminum stem and brass threads of the sensor don't bond. If storing the vehicle for extended periods, (longer than 1 month) remove sensors from the aluminum stems, mark their locations and store. Be sure to fill the tires to the correct pressure when installing the sensor and reapply the grease before screwing the sensor on.

How do I know if I need a repeater?

You really won't for sure until you install the system. We do suggest a repeater if you are over 38 feet in length, or if you pull a toad or trailer with a motorhome. You can always purchase the system first to see if you need a repeater. If you do need one, they are readily in stock and economically priced.

What is a repeater?

A repeater is a device that receives data from your sensors, strengthens the signal, and pushes it forward so that the monitor can receive tire data. There is no programming involved. Simply connect the repeater and it works from that moment on.

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 vehicle configuration 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 Operating Frequency Operating Temperature Range Sensor Weight Sensor Dimensions Sensor Batteries Sensor Pressure Range Sensor Low Voltage Shutdown

MONITOR

Monitor Power Requirements

Monitor Dimensions Monitor Weight Monitor Power Cord Plug Type Monitor Tire Positions Sensor Alarm Trigger Settings Approx. 75 feet (Line-of-Sight) 433.92 MHz FM -30°C to +85°C Approx. 2/3 oz. 1.01" H x 1.11" Dia. Internal, non-rechargeable 10 to 200 PSI 2.2 Volts

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

nVISION® TPMS - #30100VA Hopkins Towing Solutions® TPMS - #38100VA

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

TPMS Made in China

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800-1847-001 Rev. B 1/11