TIRE PRESSURE &
TEMPERATURE MONITORING SYSTEM

Specially Designed for RVs,
Motor-homes, Commercial Vehicles and Trailers.

Thank you for Choosing our TPMS,
If you encounter any situation during installation and usage,
We could be reached at: support@finnet-tech.com
Or if you will need a phone call service,
Just need to leave a message to our service email or our shop chat window,
Our service staff will reach you very soon.

Video Link for Sensor Programming (from Youtube):

TPMS Sensor Programming

Video Link for System Settings (from Youtube):

TPMS System Settings

Video Link for TPMS Cap Sensor Installation (from youtube):

TPMS Cap Sensor Installation

Video Link for Sensor battery replacement(from Youtube):

TPMS Cap Sensor Battery Replacement

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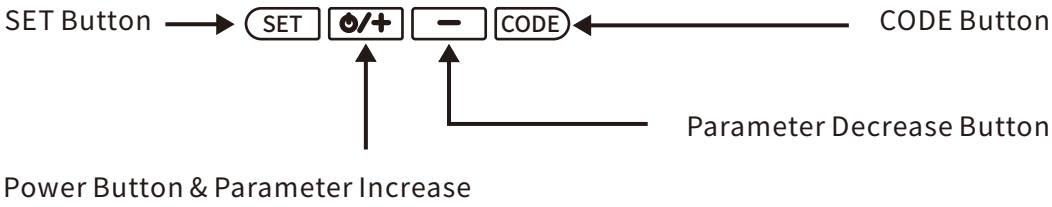
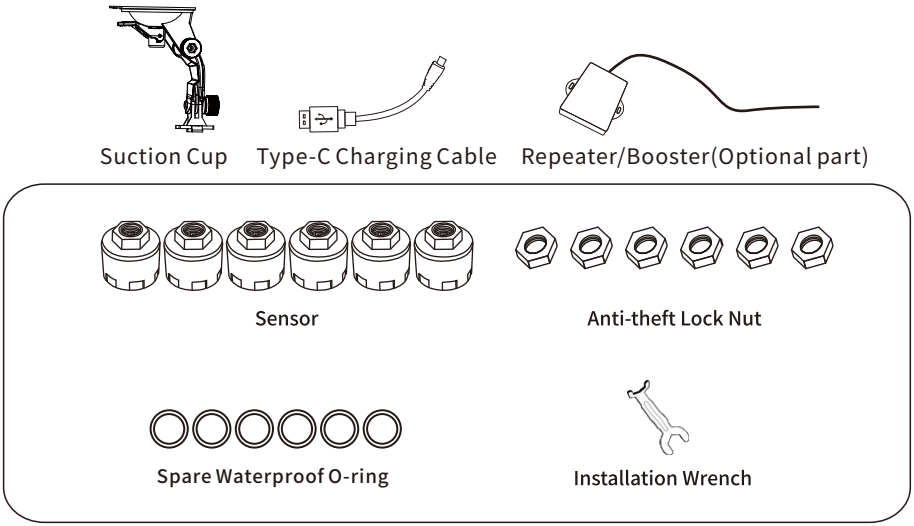
SYSTEM COMPONENTS





SYSTEM OVERVIEW

The system comes with a monitor that can handle 10 wheels with pressure up to 210 PSI. The sensors are light weighted and do not affect the tire balance and have easy to change replaceable CR1632 batteries.

The monitor displays all tires' pressure or temperature in a full screen. Alarms can be preset by the operator so visible and audible alarms can warn the driver of a catastrophic failure (rapid air pressure loss), high or low pressures and high temperature. The alarm and monitoring are sent wireless in real time to that cab allowing the operator to monitor tires that are out of their vision. The audible alarm eliminates the needs to watch the monitor continually.

Tire Pressure can be displayed in PSI or BAR and temperature in Fahrenheit (°F) or Celsius (°C). Pressure alerts can be set to a different pressure setting for each axle, so additional towed trailers or vehicles are no problem. An optional booster can be purchased from your dealer or your local distributor if you have signal loss due to distance, structural or electronic interference.

Tire monitor has a rechargeable lithium Ion battery, Sensors come with either the Anti-theft security feature or Flow-through feature. The monitor comes with a Type-C charging cable.

GENERAL INFORMATION

A tire professional or your vehicle owner's manual should be used to determined the proper tire pressure for your vehicle. Recommended operating tire pressures should be set when the ambient temperature is low or cold.

Dramatic changes in tire pressure can occur because of; increased or decreased ambient temperature, tire contact surface temperature, wheel and axle loads, sun shining on a side, etc. These and other conditions should be taken into consideration when setting initial tire operating pressures.

This system cannot warn you of side wall failures; however, it can supply you with irregular pressures and temperature information that may help to prevent this. If the monitor is shut off overnight simply switch the monitor back on before departure and your real time tire pressures and temperatures will be updated typically appear on the screen within 5 to 10 minutes. Even if the monitor is in the sleep mode the system is always monitoring and will alarm should any pressure settings or temperatures be out of your set parameters.

The Schrader Valve (core inside the valve stem) should be the correct size, be in good condition and be able to be depressed fully to allow the release of air to the sensor so it can operate. Some valve stem extensions may cause inaccurate readings if they don not enable the sensor to work correctly, metal bodied stems, or T-Valve type is recommended for best performance. Should you have difficulty with a pressure sensor not working properly, we recommend that you contact a professional to ensure the tire stem and Schrader Valve are installed and operating properly. If using internal tire sealants or balancing compounds / beads, check with the manufacturer to ensure they are compatible with TPMS systems or that you have filtered valve cores installed. Over a period, tires may lose pressure naturally, through the tire itself or for other reasons such as rim leakage, etc.

After installing the sensors on a tire valve stem, it is recommended to perform a soapy water test using 1/4 dish soap and 3/4 water. Spray the soapy solution on the valve stem and sensor area to ensure the sensor is seated all the way. If air bubbles are seen in any of these areas, the tire may deflate.The wheel sensors are weatherproof and can be run in the rain.

Consult a tire professional if any of these areas prove to be a problem.

Purchasers of this product should not solely rely on this tire pressure monitoring system for safety and should check the condition and pressure of their vehicle's tires on a regular basis as described by the manufacturer of the vehicle or tire manufacturer. Please note, this TPMS system works on an RF system, as with many RF tire systems this system can occasionally suffer from interference depending on the location of the system; thus, causing the system to be in accurate or not operate at all. Tire pressures and temperatures are not the only things that can affect tire safety; we suggest daily visual inspections and periodic checks by tire professionals.

PRODUCTS FEATURES

Monitor Features

* Reliable and easy to install.
* 4.3 inch for monitor display area.
* Built-in rechargeable lithium ion battery.
* Automatic light sensor and backlight.
* Built-in motion sensor.
* Configurable high/ low pressure warnings.
* Configurable high/ low temperature warnings.
* Visible and audible alerts.
* Select-able pressure unit from PSI or BAR.
* Select-able temperature unit from °F or °C.
* Displays 10 tires' pressure and temperature simultaneously.
* Long range between monitor and sensors.

Sensor Features

* Reliable cap sensors, easy to install.
* Water resistance.
* Replaceable sensor batteries.
* Fast leakage alert.
* Individually coded sensors.

Repeater/ Booster Features (Optional Part)

* Maintains signal stability.

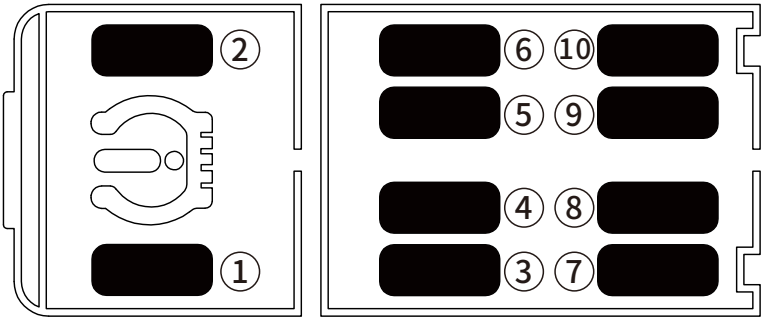
START YOUR NEW SYSTEM SETTINGS (ALERT PARAMETERS)

1.Unpack all the components of your TPMS system and ensure it is complete.

2.Take the number kit from the accessory pack and number all your sensors as indicated below. (Tips: After put the stickers to the sensors, take some clear nail polish and paint over the number. It will keep the sticker on the sensors for much longer time in wet weather conditions.)

3.Program the alarm parameters using STEP 1 setting your system alarm parameters.

4.Program each sensor to the monitor using METHOD 1 tabletop page 7 programming sensors to the monitor.



STEP 1: SETTING YOUR SYSTEMS ALARM PARAMETERS

Take a memo note of your High/Low Pressure Setting for each axle on the last page of your manual for future usage.

1.Next to each axle write down what your tire pressure is by axle and calculate what your alarm settings will be.

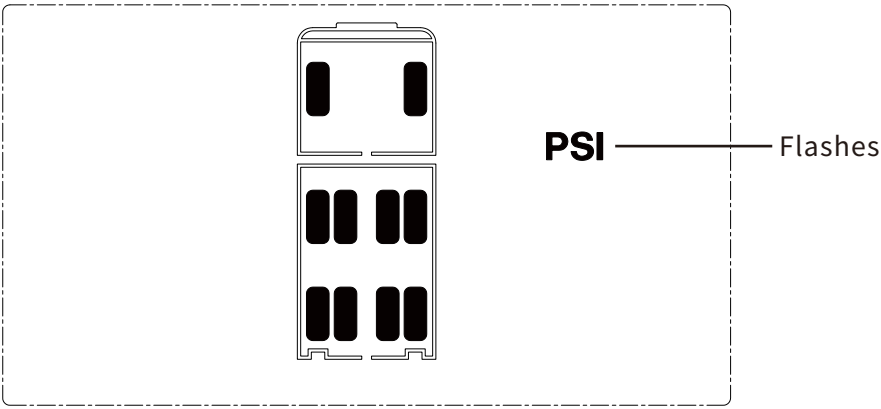
2.High Pressure Setting will be (20% above your axle standard tire pressure).

3.Low Pressure Setting will be (10% below your axle standard tire pressure).

Example: Front axle standard tire pressure is 100 PSI

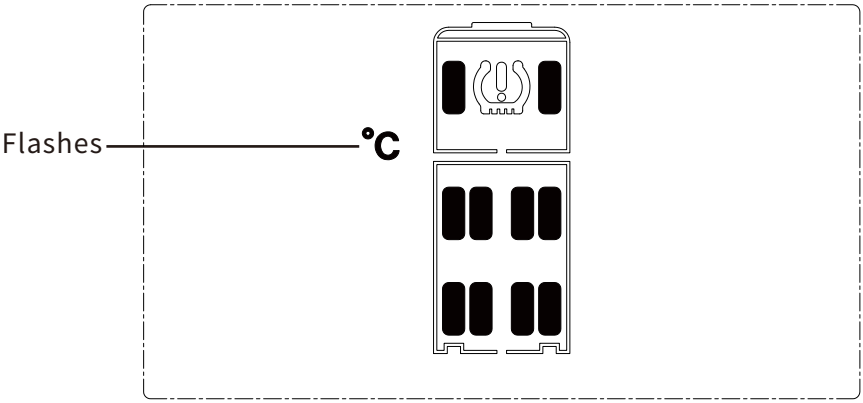
High Pressure Alarm Setting will be 120 PSI (100 PSI x 1.2 or 120%) =120 PSI.

Low Pressure Alarm Setting will be 90 PSI (100 PSI x 0.9 or 90%) = 90 PSI.

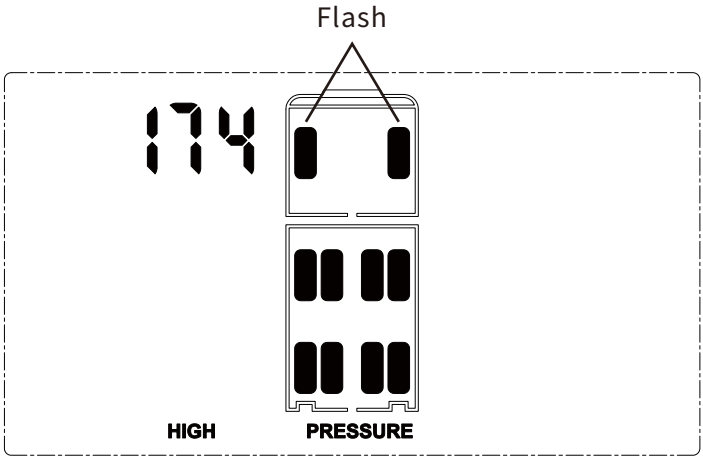


STEP 2: Choosing Pressure and Temperature Unit of Measure:

PRESS and HOLD the SET button, don't release until you hear a beep. You will see PSI flashing on the screen. You can change to BAR by pressing the + or - key. When the one you want to use appears on the screen, shortly press SET button to select your temperature unit. You will see °F or °C flashing. Shortly press + or - key to select the one you need.

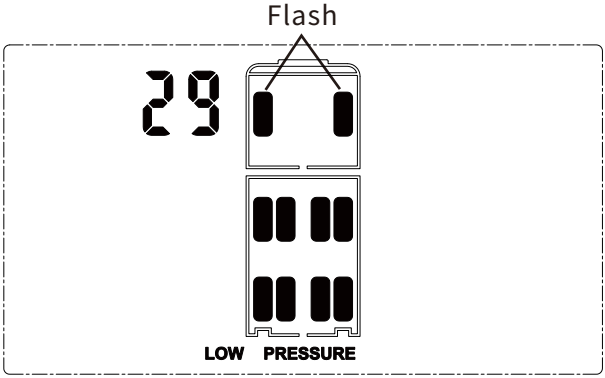


The next time that you press the SET button, the front axel will be flashing and the words “HIGH PRESSURE” will be displayed. Follow the instructions below.



STEP 3: Choosing per Axle High and Low Parameters:

Using the set key scroll to your first axle“ High” pressure. Use the plus or minus to set your HIGH PRESSURE. When you reach your desired pressure display, shortly press and release the SET button again and“ LOW PRESSURE” will be displayed. Use the plus or minus key to set your low pressure. Press the SET button again and the next axle will flash “HIGH PRESSURE”. Make you're adjustments the same way as for the first axel. Skip any axles that you are not using and just keep hitting the SET button until you go to the axle that you want to see. When you have finished setting your parameters PRESS and HOLD the SET button until the monitor beeps and you are back to display mode. Keep in mind that the monitor will time out in 40 minutes. So, write down your settings before you start.



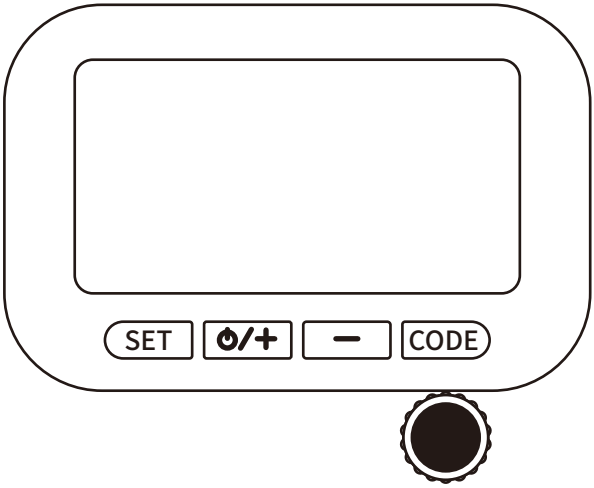
PROGRAMMING SENSORS TO THE MONITOR

Method 1 - Tabletop Programming (this is the easiest way)

1.PRESS and HOLD button ⏻/+ to turn on the monitor. Place the monitor flat on the table in front of you. Then place your numbered sensors on the table about a foot away from the monitor.

2.Press and hold the CODE button on the lower right side down until you hear the monitor beeps and all the 10 tires show up with number 1 tire blinking. After programming, only those tires that you program will show on the monitor. Place the monitor flat on the table and and then place your number 1 sensor on the table make sure that the sensor is touching the base of the monitor next to the “Hold Sensor Here” sticker. Shortly press + or - to select the tire icon you will need to program. When the blinking comes to the tire you select, shortly press CODE button and release, you will see an “LF” displays by the current programming tire. Slightly turn the sensor around close to the monitor bottom part, you will hear a beep, and the current sensor pressure reading(Usually it's 00 under atmosphere pressure, it will be in normal readings after installed on tire valve).That means your first tire is programmed.

Then put your first sensor away and take the next sensor to your monitor. Shortly press button + or - to select the tire location for the second sensor. Shortly press button CODE and release, you will see “LF” by your second tire. Slightly turn the sensor around close to the monitor bottom part, you will hear a beep, your second sensor is programmed. Repeat above steps for your rest sensors.



3.When you have programmed the last sensor, press the CODE button down until the monitor sets off the alarm. Then turn off the monitor then turn it on again to make sure the tires are programmed in the right position.
4.Install your sensors to the valve stems in the order that you programmed them. Give the monitor 5 to 10 minutes depending on the number of sensors that you have. Once the sensors are synced you will not have to re-sync unless you turn off the monitor. You will not lose any data if you turn off the monitor. But you will have to wait for the system to re-sync when you turn off the monitor back on. You can leave the monitor turned on by the monitor's battery power. Then monitor internal battery will run for about 60 hours or 30 days between charges.

NOTE:
If you failed the programming, the monitor will issue two short beeps, slightly turn the sensor around next to the monitor bottom, shortly press CODE button to try LF mode again. If you still get two beeps please check the battery voltage with a voltmeter. The voltage in a fresh battery should be 3.2V. If it’ s at or below 2.8V, please replace with a fresh one. Make sure the battery is installed in the proper orientation as shown in this manual.

Method 2 - Air Inflation Activation

1.PRESS and HOLD button ⏻/+ to turn on the monitor.
2.Place the sensors on the tires as numbered on your diagram but not under air pressure yet.
3.Press and hold CODE button until you hear the monitor beep. At this time, you will see all 10 tires on the monitor screen and your number one tire icon should be flashing. Use the + or - button to move to the tire you want to program. Place the monitor within 3 inches of the sensors and screw the sensor all the way on. Wait a few seconds and the monitor will beep and the current pressure will be displayed. If it does not, take off the sensor from tire valve and wait for 10 seconds to screw it onto the tire valve again to try tire inflation. Once coded press the plus button to go to the next tire and repeat the steps. Use the plus key to go to the next tire and repeat. Skip any tire that is not on your rig.

YOUR SYSTEM IS NOW SET-UP AND READY FOR USE

MONITOR DISPLAY IN OPERATING MODE:

After the sensors have all been programmed and the system is in operating mode, The monitor will display all tires' pressure or temperature in a full screen. The tire being transmitted will flash on the screen, and the pressure and temperature for that wheel will be displayed on the monitor. When the monitor is initially turned on, it may take up to 5 to 10 minutes for the monitor and sensors to sync up before the pressure and temperature will show on the monitor. Wait for all the tires to read before driving. After this time if you see one sensor is till not transmitting the pressure and temperature, you may want to reprogram the sensor. On an initial set up, it the tire still fails to indicate a pressure and temperature remove the sensor and back the Schrader Valve (valve core) out approximately 1/8 to 1/4 turn and re-install the sensor. This will ensure there is enough contact and air pressure to the sensor.

NOTES and RECOMMENDATIONS:

There will be an audible single “chirp” and the tire will flash if the monitor has not received a reading from that tire after 30 minutes. If you are still receiving PSI and temperature readings from the sensors, then the chirp is an indication of low battery on that sensor. The monitor solar panel works as the light sensor. When you see the solar power charging icon is shown on the top right side of the screen, it means there is enough light for solar panel to turn on the charging, the backlight will be turned off to saving battery power. If there is dark enough the backlight will automatically turn on if you could not see the solar power icon on the screen. The monitor comes with a built-in motion sensor; it will go to sleep (energy saver mode) ifthere is no movement of the vehicle detected for approximately that the monitor is shut off when the system is not in use, or you are staying in the vehicle overnight. When external power is applied to the monitor it will override the manual on/off switch on the left side. You will get a longer service life from your monitor's internal battery, if you disconnect the external power source and allow the battery to deplete through normal operations every couple week's naturally.

This monitor only includes the acceptance function.

Factory Defaults

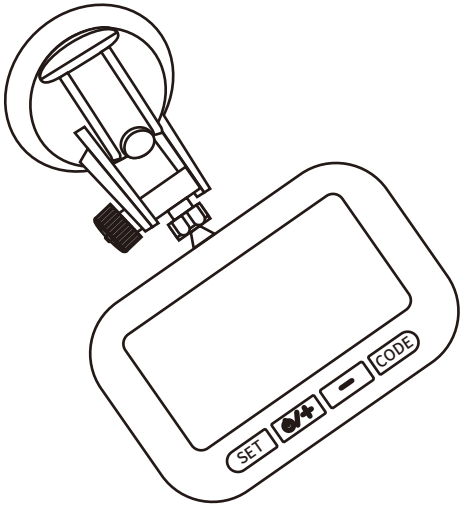
The factory default settings are as follows:
High Pressure 175 PSI (12.1 BAR),
Low Pressure 35 PSI (2.4 BAR),
Temperature 158°F degrees (70°C)

RESTORE PARAMETERS to FACTORY DEFAULTS:

Turn off the monitor; press the SET button and activate the monitor at the same time, the factory settings will be restored. To delete a sensor ID see page 12.

MONITOR INSTALLATION

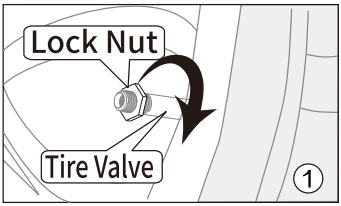
Your system comes with two mounting options: a plastic tower with suction cup mount for window or dash, some people prefer to use Velcro or the small bean bags used for cell phones on their dash.Mount it onto the window screen or left side window using the suction cup provided ensuring you do not obstruct the driver's vision of the road. Plug the power adaptor into the cigarette lighter or auxiliary power outlet and connect the power cable to the monitor. Ensure the pin is aligned straight when inserting it into the right side of the monitor. When hard wiring it is recommending using a “keyed” power source.



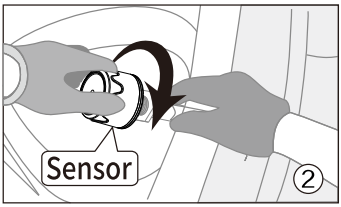
SENSOR INSTALATION

1.Take out the lock nut out from accessories pack and screw it onto tire valve.
2.Install the sensor onto tire valve and tighten it by hand.
3.Use the wrench provided to screw the lock nut onto the sensor anticlockwise.

NOTE:Please switch on your display before sensor installation.



Install the sensor onto tire valve

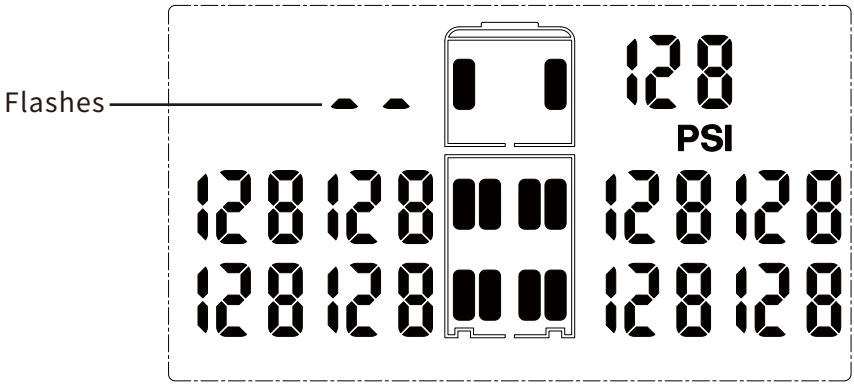


Tighten the sensor onto tire valve clockwise

Tighten the lock nut onto the sensor anticlockwise

DELETING SENSOR ID

1.In operating mode, press and hold CODE button until the monitor beeps and all 22 tires are showing. Press the + or - button to select the desired tire. 2.Press and hold the SET button for 3 seconds. A double beep sound will be issued, and you will see two dashes “- -” after the sensor code is deleted successfully. Use the + or - key to go to the next tire that you want to delete. To return to operating mode, press and hold CODE button until you hear the monitor beep.



OTHER FUNCTIONS

The monitor displays all your tires pressure or temperature in a full screen. Normally it displays pressure readings constantly. But if you want to check the temperature readings occasionally, just need to shortly press + or - key, the temperature reading will show for about 6 seconds then return to pressure reading automatically.

Backlight and Motion Sensor

The monitor has a built-in light and motion sensor. The backlight will turn to be a bit stronger if the solar panel has detected enough light in the environment. The solar icon will be on in strong backlight mode. The backlight will turn to be not so strong if the environment is dark. The solar icon will be off in the dark backlight mode. The monitor will enter sleep mode to conserve battery life if the motion sensor does not detect motion for 2 minutes. It will come back to operating mode when it detects the vehicle is moving again or other motion.

Charging the Monitor

The lithium - ion battery inside the monitor , when fully charged can run for up to 60 hours between charges. When the battery symbol bars are gone, a recharge is required.

OUT OF PARAMETER ALERTS

If there is a meaningful change in pressure or temperature in this cycle it will transmit to the monitor. If not, it will maintain the reading and transmit a full update every 5 minutes. This is to conserve the sensor battery. If any reading goes out of the real-time alert; you will notice three things:

1.An audible alarm.

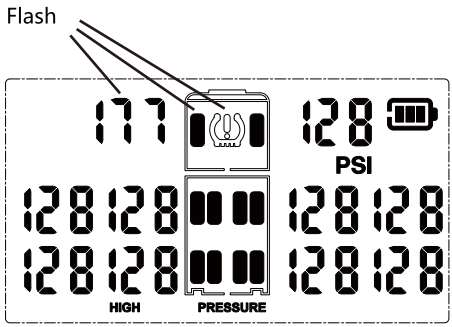
2.The corresponding tire on the monitor will flash, and a text message of what is wrong will appear on the screen.

3.Press any button on the display and the alarm will stop. However, the flashing text message will not be turned off until the correct pressure and temperature settings are restored to within range.

MONITOR ALERTS

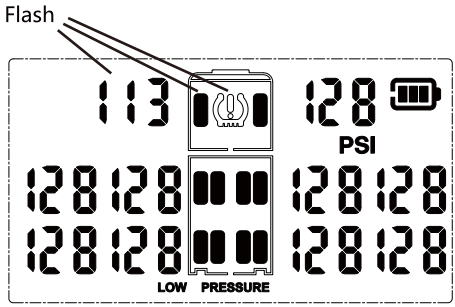
High Pressure Alert

When the sensor detects high pressure in a tire, it will send an alert to the monitor immediately. High Pressure will show on the screen. The corresponding tire icon will flash. The audible alarm will be on together with the flashing alarm icon. Press any button to turn off the alarm. However the flashing tire icon and text will continue until the problem is corrected.



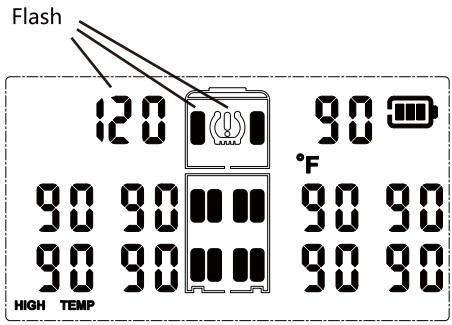
Low Pressure Alert

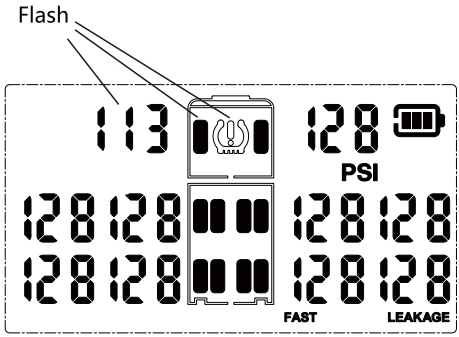
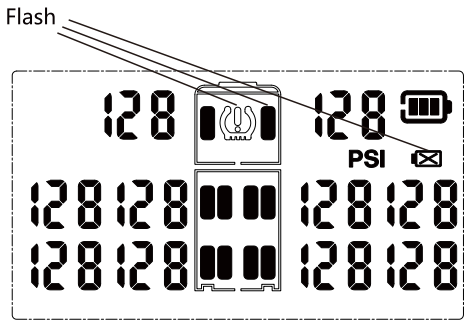
When the sensor detects low pressure in a tire, it will send an alert to the monitor immediately. Low Pressure will show on the screen. The corresponding tire icon will flash. The audible alarm will be on together with the flashing alarm icon. Press any button to turn off the alarm. However the flashing tire icon and text will continue until the problem is corrected.



High Temperature Alert

When the sensor detects high temperature in a tire, it will send an alert to the monitor immediately. High Temperature will show on the screen. The corresponding tire icon will flash. The audible alarm will be on together with the flashing alarm icon. Press any button to turn off the alarm. However the flashing tire icon and text will continue until the problem is corrected.



Fast leakage Alert	
When the sensor detects a rapid air loss in a tire, it will send an alert to the monitor immediately. Fast Leakage will show on the screen. The corresponding tire icon will flash. The audible alarm will be on together with the flashing alarm icon. Press any button to turn off the alarm. However the flashing tire icon and text will continue until the problem is corrected.	
Sensor Low Battery Alert	
When the sensor battery becomes low, it will send an alert to the monitor immediately. Sensor Battery Low will show on the screen. The corresponding tire icon will flash. The audible alarm will be on together with the flashing alarm icon. Press any button to turn off the alarm. However the flashing tire icon and text will continue until the problem is corrected.	

Replacing Anti-Theft Sensor Battery

When you have the low battery alarm sound coming from the monitor, it is time to replace the battery.Replace with a CR1632 battery, which operates at -20°C to 80°C. These can be purchased at many hardware stores, Radio Shack or large Walmart online at either eBay, Amazon or purchase from your local TPMS dealer.

1.Use the wrench provided to put on the sensor valve as below. Then screw off the sensor valve anticlockwise and open the battery cap.

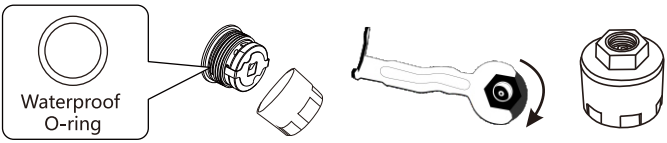
2.Take out the battery from battery pool.

3.Install a new Cr1632 battery inside the battery pool, make sure positive pole upside.

"-" pole
CR1632 lithium metal battery

"+" pole
CR1632 lithium metal battery

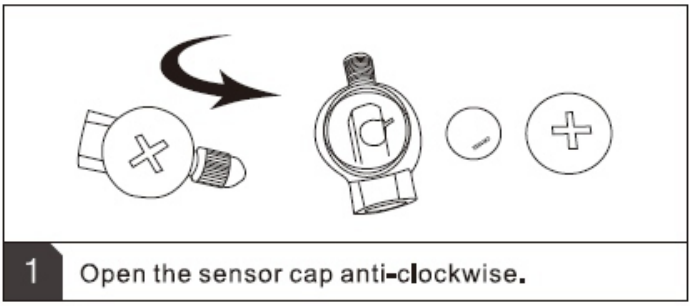
4.Put back the battery cap and tighten the cap with the wrench clockwise.
NOTE: Replace a new waterproof O-ring from the accessory pack if it' s broken.



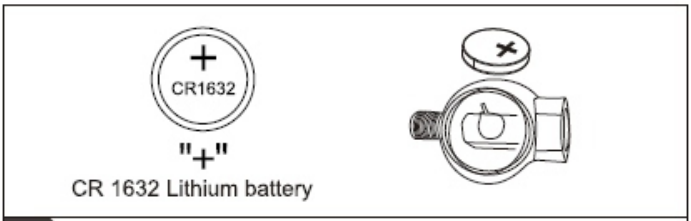
When you open the sensor note the thin black wire, it is the sensors antenna. Do not break it. Broken antenna wire caused by replacing battery.

Flow Through Sensor Battery Replacement

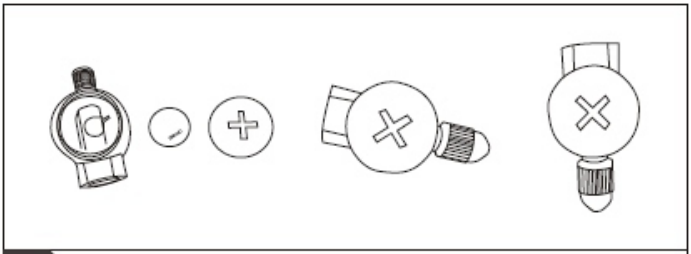
When you hear the low battery beep, the next time you park the vehicle watch the monitor. Every time the monitor comes to that sensor the monitor will beep. Install CR1632 battery operates at -20℃ to 80℃. These can be purchased at many hardware stores, Radio Shack or large Walmart online at either eBay, Amazon or purchase from your local TPMS dealer. Use the hex/Allen wrench provided to remove the anti-theft screw and take of the sensor. Then use a small Phillip screw driver to take the cap marked “EasyTire” off. Under the cap is the battery. Remove it and replace it with a new CR1632 battery. Depending on how long the battery was low you may have to reprogram the sensor.



1 Open the sensor cap anti-clockwise.



2 Replace a new CR1632 battery and make sure positive pole upside.



3 Check the waterproof O-ring, replace a new one if it is broken.

REPEATER / SIGNAL BOOSTER (OPTIONAL PART)

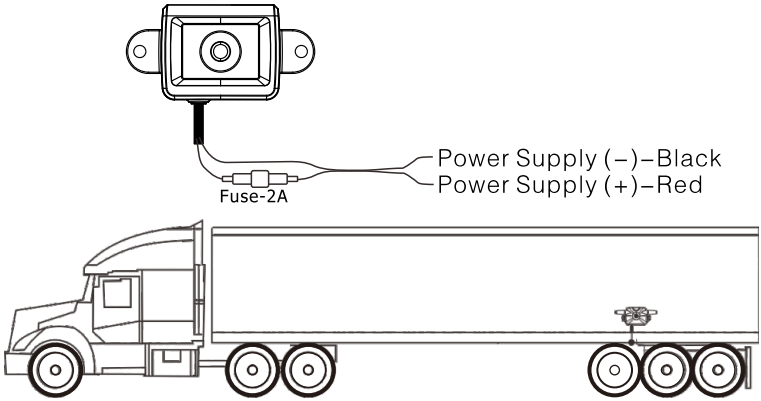
Recreational Vehicles, Tow Vehicles, Trailers and Tractor Trailer The Repeater/ Booster is designed to amplify the signal from your TPMS system sensors. In situations where. length, structure or e lectronicinterference prevents your monitor from receiving a signal, the Repeater/Booster amplifies the sensors transmitting distance. Some Diesel Pushers experience difficulties do to the number of electroniccomponents in the engine compartment.As well as where sensors are shielded by bodywork etc. causing sensorsignal strength to be reduced and where extremely cold temperatures mayreduce sensor battery power. The optional signal Repeater/ Booster can beordered separately and is available at your local dealer or distributor. The hard-wired booster should have 12V DC power when the vehicle is moving.

REPEATER / BOOSTER SINGNAL INDICATION

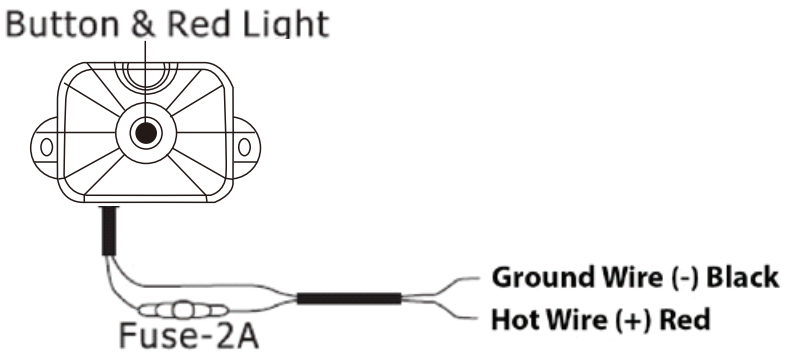
Repeater / booster singal indicator ( ) will be displayed on monitor screen when repeater is connected with power supply (12~24V) and received signals from sensors. If there is no signals from sensors over 15mins, the signal indicator will be off.

PLACEMENT INSTRUCTIONS

A booster / signal repeater (should be ordered separatly) could be used for trailer exchange. It is required to install a booster for each trailer. For towing truck it is recommended to install the booster at the rear part of the vehicle. For trailers, it is recommened to install the booster in front of each trailer.



Hint: Most people install them into their aft compagtment or closet in the coach and wire it into the compartment or closet light. By placing it on the coach you receive the advantage of the Repeater/Booster even when your tow vehicle is not connected. INSTALLATION INSTRUCTIONS Be sure to wire the Repeater into a 12V power source that will be "on" during vehicle operation. The Repeater will be on as soon as it is connected to power. The red light stays on when power is connected.



REPEATER/BOOSTER ALERTS

High/Low Pressure and Fast Leak Alerts When the sensor detects high/low-pressure abnormalities and rapid leaks, it will send an alert to the Repeater/Booster immediately. The audible alarm will be on together with the flashing red light. Press any button on the monitor to turn off the alarm. However, the flashing red light will continue until the issue is resolved. The system is set to alarm if you lose more than 7.25 psi in a minute.

Sensors - Standard

OPERATIONAL TEMPERATURE	-4°F to 176°F
STORAGE TEMPERATURE	-40°F to 185°F
PRESSURE RANGE	0 to 13 bar, 0 to 188 psi
PRESSURE ACCURACY	±1.5%
TEMPERATURE ACCURACY	+5 -5 °F
TRANSMISSION POWER	
TRANSMISSION FREQUENCY	433.92 MHz
BATTERY LIFE	up to 2yr. (CR1632 -40°F to 176°F)
SIZE (inch)	Diameter 0.9, Height 0.86
WEIGHT	0.45oz

CAUTIONS

1.The monitor should be installed in the vehicle where it does not affect normal driving.
2.The monitor should be well fixed to avoid falling off during driving.
3.Regular tire inspection and maintenance is still necessary.
4.After the system is installed correctly, the driver does not need to star at the monitor all the time while driving. Alerts will be issued when abnormal conditions are found in the tires.
* Information in this manual is subject to change without notice.

DISCLARMER OF WARRANTY:

The warranty applies to the original purchaser only. The warranty does not carry over nor is it transferable to another party. Neither the seller nor the manufacturer will be liable for any loss damage party. Neither the indirectly arising from the use or inability the suitability of the product for its intended use, and the user shall assume all responsibility and risk in connection herewith.

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.
FCC warning:
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.