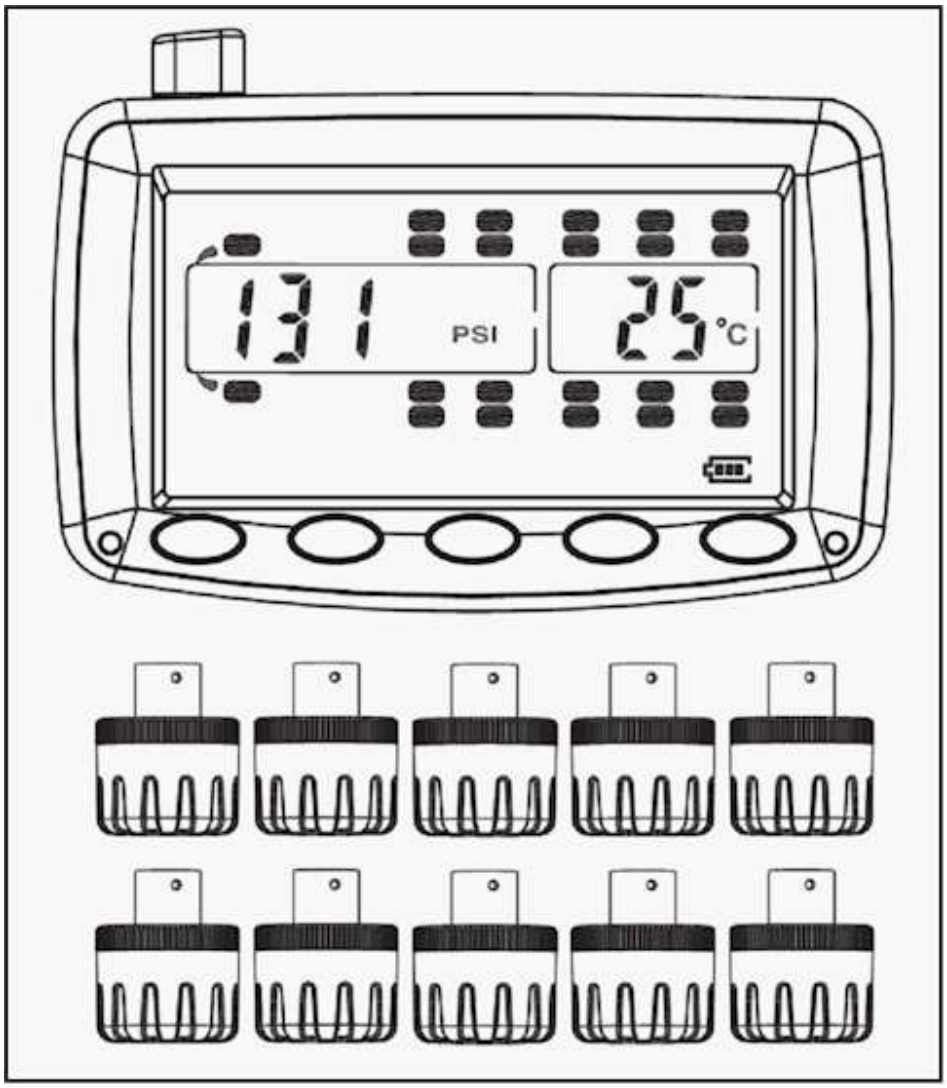
INTRODUCING

TALON

BY HawksHead

TALON 22 WHEEL & TALON X-TREME 38 WHEEL TPMS, UP to 188 PSI PRESSURE AND TEMPERATURE WITH CAP OR FEEDTHRU SENSORS

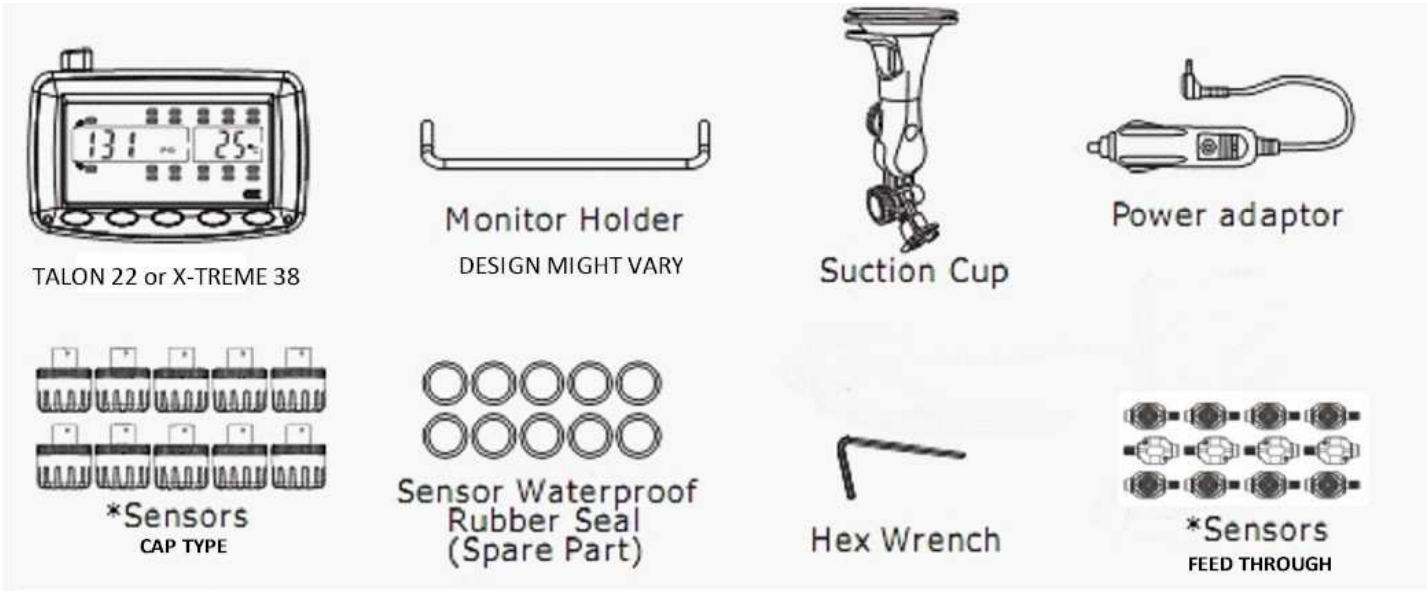


Thank you for your purchase of The HawksHead TALON OR TALON X-TREME TPMS System

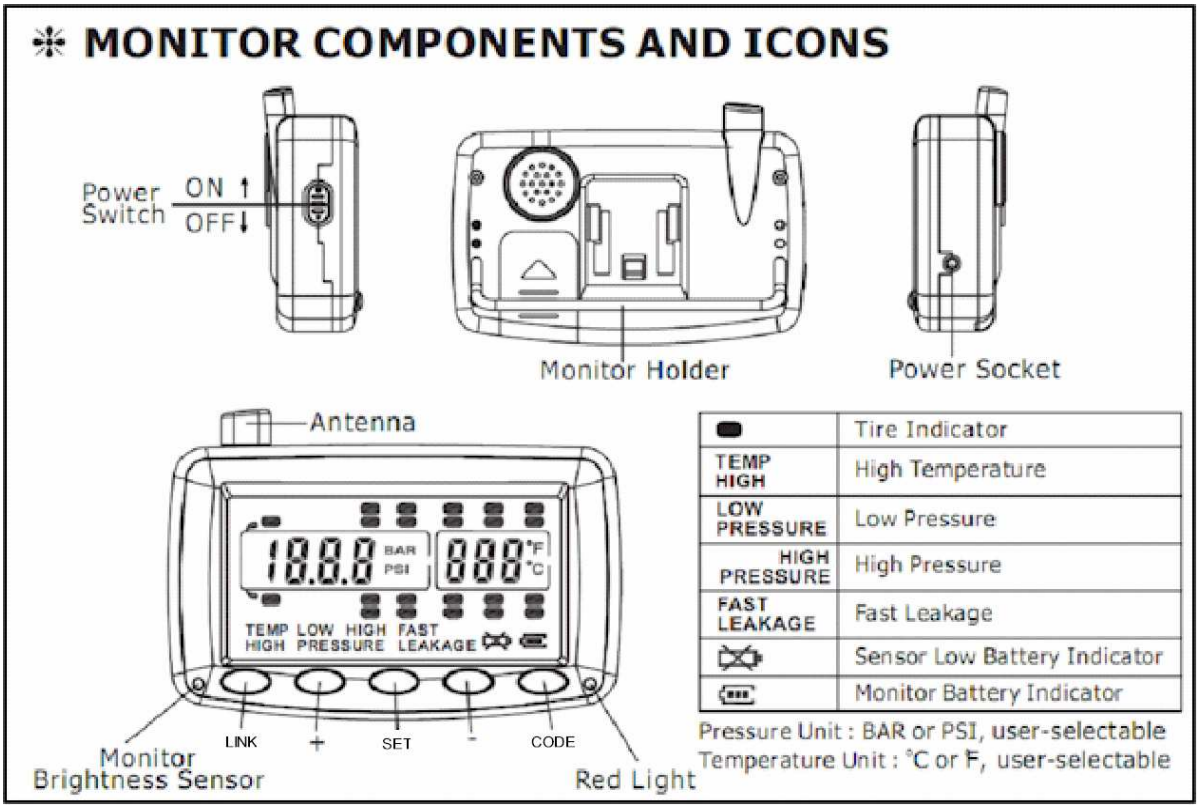
With ease of installation and a large clear LCD display, with built in rechargeable lithium battery, the monitor has an automatic backlight for both day and night use. The monitor can handle up to 22 wheels for the TALON and 38 wheels for the TALON X-TREME, by the addition of extra sensors beyond the 4 wheel base system.

High and low pressure warnings along with high temperature warnings can be set by the user. The monitors gives both visible and audible alerts for High pressure, Low Pressure, Rapid pressure drop and high temperature. Pressure and Temperature units can be displayed in PSI, Bar and Temperature in degrees F & C. Pressures can be set to a different pressure setting for each axle, so additional towed trailers etc are no problem.

The long range Cap and Feed Through sensors for this system can reach up to 45 feet vehicle distance without a booster and are easy to install by simply screwing on to the vehicles tire valves, We do recommend the use of metal valve stems for this system and we do offer optional Stubby metal tire valves for (size .625 & .453 valve size applications up to 100psi). The Feed Through sensors do not have to be removed to add air. The TALON Systems have replaceable sensor batteries in both style of sensors so there is no need to throw them away when the battery levels drop, just simply replace them with a generic CR1632 battery. Each sensor comes with a security screw lock should you wish to lock the sensors to the valve stem. These systems offer ease of installation and operation that you would expect with a high grade TPMS.



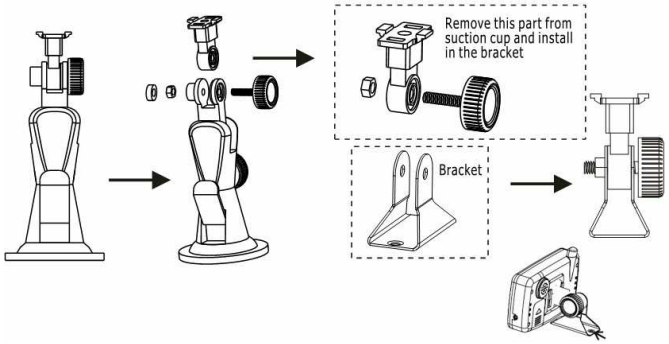
*Sensor type and quantity, may vary. Monitor may vary TALON 22wheels max, TALON X-TREME 38 wheels max



MONITOR

Charge the Monitor for at least 4 hours before set up or plug the power cord into the monitor and vehicle. The lithium battery inside the monitor has a battery life of 60 driving hours when fully charged. Leave the monitor switched on when charging. An Icon shows when battery needs charging. The Power switch is on the side of the monitor. The monitor will stay on when a charging cable is connected.

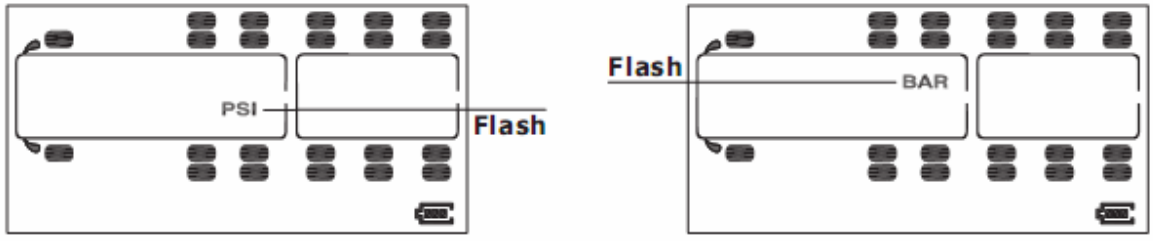
OPTIONAL BRACKET MOUNT



SETTING THE SYSTEM
1 SET YOUR TIRE PRESSURES WHEN COOL USING A QUALITY GAUGE

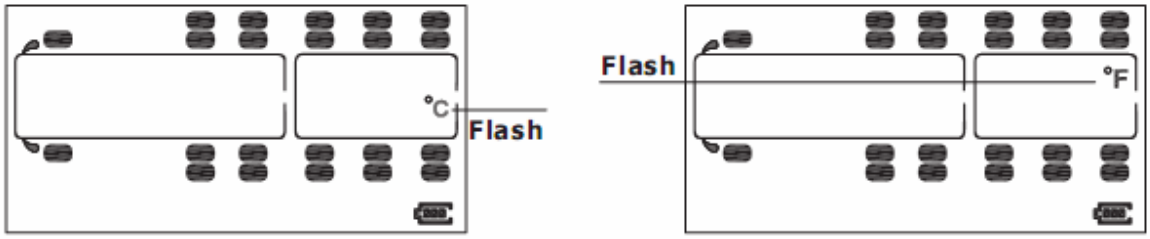
2 In Standby mode, press the SET BUTTON for 3 seconds and release it when you hear it BEEP once
3 Press the SET BUTTON repeatedly to cycle through to the parameter you wish to set. Press the + and - Buttons to adjust to your desired setting.
4 After you have selected all settings press the SET Button for 3 Seconds and release after you hear the BEEP and your settings are saved
5 If you do not press any button for 1 minute the monitor will return to the Standby mode without storing any data
6 Factory Presets are as follows. Pressure (PSI) High Pressure (175PSI) Low Pressure (100PSI) TEMP (Degrees C) High Temp (70C/158F)
7 To restore Factory Defaults. Turn off the Monitor, Press the SET Button and Turn On the Monitor at the same time. The RED light will flash and factory setting will be restored.
8 The X-TREME 38 wheel system monitor will show the Pressure & Temperature in a reverse position.

1).Pressure Unit setting



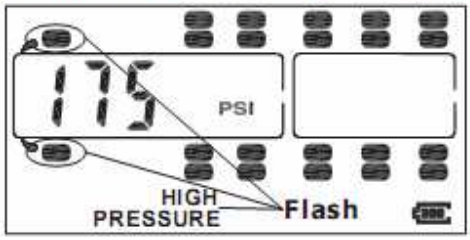
When "PSI" or "BAR" icon is flashing, Press "+" button to select pressure unit, "BAR" and "PSI" are available.

2).Temperatue Unit setting



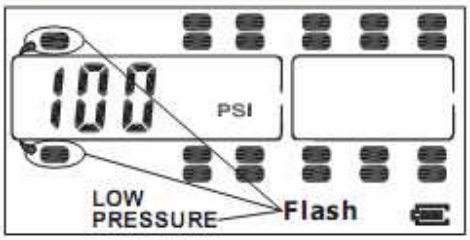
When "°F" or "°C" icon is flashing, Press "+" button to select temperature unit, "°F" and "°C"are available.

3). High Pressure Alert Setting for tires in 1st axle



2 tires in 1st axle and "HIGH PRESSURE" icon flash. Press the "+" and "-" buttons to adjust.

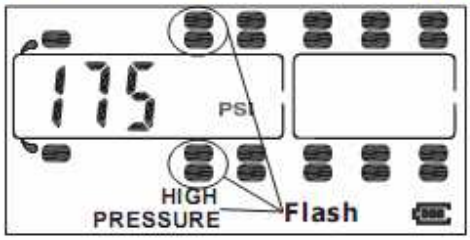
4). Low Pressure Alert Setting for tires in 1st axle



2 tires in 1st axle and "LOW PRESSURE" icon flash. Press the "+" and "-" buttons to adjust.

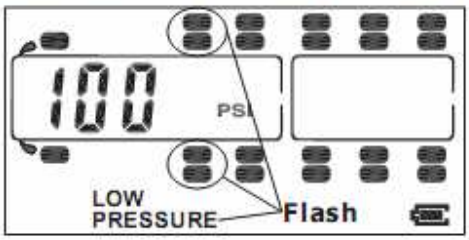
NOTE IF YOU CANNOT REDUCE THE LOW SETTING LOW ENOUGH FOR YOUR NEEDS, FIRSTLY REDUCE THE HIGH SETTING THIS WILL ALLOW THE LOWER SETTING LEVEL TO BE REDUCED. IF YOU DO NOT INTEND TO USE ALL 22 WHEEL POSITIONS SIMPLY BYPASS ANY WHEELS THAT YOU DO NOT INTEND TO USE IN YOUR CONFIGURATION. NON USED WHEELS WILL DISAPEAR FROM THE MONITOR DISPLAY AFTER SETUP

5). High Pressure Alert Setting for tires in 2nd axle



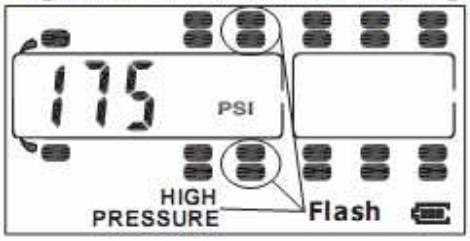
4 tires in 2nd axle and "HIGH PRESSURE" icon flash. Press the "+" and "-" buttons to adjust.

6). Low Pressure Alert Setting for tires in 2nd axle



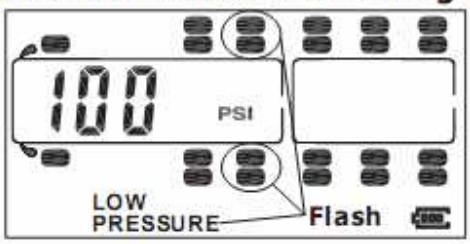
4 tires in 2nd axle and "LOW PRESSURE" icon flash. Press the "+" and "-" buttons to adjust.

7). High Pressure Alert Setting for tires in 3rd axle



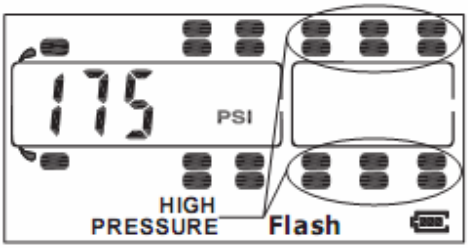
4 tires in 3rd axle and "HIGH PRESSURE" icon flash. Press the "+" and "-" buttons to adjust.

8). Low Pressure Alert Setting for tires in 3rd axle



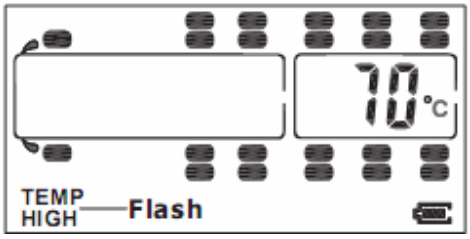
4 tires in 3rd axle and "LOW PRESSURE" icon flash. Press the "+" and "-" buttons to adjust.

9). High Pressure Alert Setting for tires in trailer



12 tires in trailer and "HIGH PRESSURE" icon flash. Press the "+" and "-" buttons to adjust.

11). High Temperature Alert Setting for all tires



"TEMP HIGH" icon flash. Press the "+" and "-" buttons to adjust.

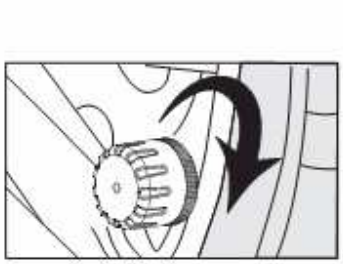
REPLACING THE SENSOR BATTERY

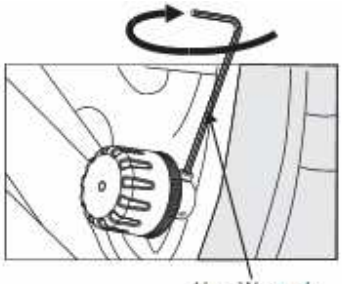
The cap or feed through sensors supplied with the system already have batteries (CR1632) installed. If storing the system remove all the sensors and note or mark their position for reinstallation on the same wheel. The sensors do not use battery power when there is no air pressure applied to them. always replace any valve caps on feed through sensors.

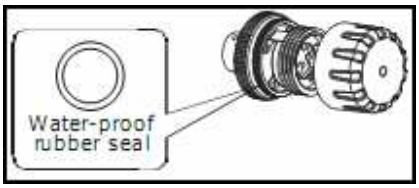
1 Unscrew the cover

2 Remove the battery

3 Insert new battery **+ upwards**

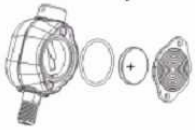






2. Unscrew the sensor cap.

3.Take the battery out.



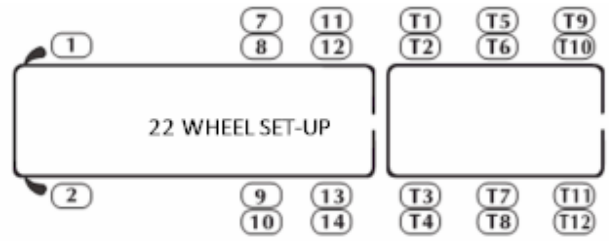
4. Replace a new CR1632 battery cell, ensure the positive+is facing upwards.

5. Check that the water-proof rubber seal is in its proper position. Screw the sensor cap back on.

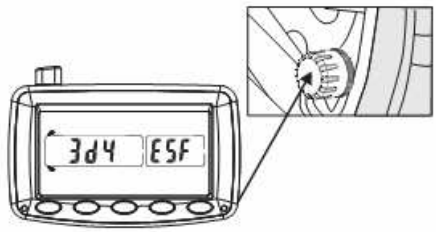
SENSOR INSTALLATION

This should be done one at a time when you read Programming the Sensors below, do not just screw them all on at once. Remove any existing tire valve caps and screw the sensor on the valve, ensure the locking screw is backed off enough to allow the sensor to be screwed on without it rubbing the threads. Place a small amount of anti-seize or WD40 on the valve threads ensuring none enters the valve or sensor to stop any galvanic action. Hand tighten the sensor do not use any wrenches or tools to tighten. The locking screw can be tightened if required as a security measure. Ensure you keep the hex wrench to remove the locking screws.

Programming the Sensors



This is to tell the monitor on which wheels you are placing the sensors.
After you have set all the parameters on the monitor
1 In Standby mode press the CODE button for 3 seconds until the monitor beeps.
2 The monitor will then flash on the right front wheel icon and because there is not yet any sensor code entered will show FFF FFF on the monitor.
3 With the monitor in hand, Go to the Right Front Wheel and screw on a sensor.
4 After the sensor has been hand tightened on the right front wheel the monitor will beep and the monitor will show that sensors code number on the screen as in the next picture. To delete the sensor if needed press the SET button for 3 seconds until it beeps and the code changes back to FFF FFF
5 The monitor now knows there is a sensor on that wheel and will monitor it within your set parameters
6 Press the + Button or - Button and move to the next wheel and follow the same procedure with another sensor.
7 Continue this procedure until all your sensors are installed, bypass any wheels you do not wish to use on the monitor
8 Please note it may take a few seconds for the monitor to detect the sensor
9 After all sensors are coded press the CODE button for 3 seconds to get out of the CODE setup
10 The monitor will go into standby mode if no buttons are pressed within 3 minutes



Ensure you place sensors on the exact wheel you programmed on the monitor, Do not install the sensor on the inside dually of an axle, if you programmed the outside dually to be used. If you make this mistake you will get an alarm in standby mode due to pressure settings not been set correctly etc.

MONITOR DISPLAY

After the sensors have all been installed and the system is in standby mode the pressures and temperatures for each wheel will be displayed on the monitor in about 2-3 minutes. Mount the monitor away from other electronic devices such as a GPS and keep out of the hot sun.
When in normal use the monitor display will automatically scroll through each monitored tire one by one showing its current pressure and temperature. There will be an audible alarm with tire flash if the monitor has not received a reading after 1 hour. The operator can also manually scroll through all wheel data by pressing the + or - button, If you manually select a particular tire the monitor will show its readings for 10 seconds.
The monitor comes equipped with a light sensor and motion sensor. The backlight will normally come on if the vehicle is in motion and the light level is low enough. While the sensors are transmitting all the time, the monitor will also go to sleep if there is no motion of the vehicle and wake up when it detects motion. If you wish to turn the backlight on this can be done by pressing any button and turned off by pressing the + button for 3 seconds.
It is recommended that the monitor is shut off if taken out of range or you are staying in the vehicle overnight.

Monitor Alerts

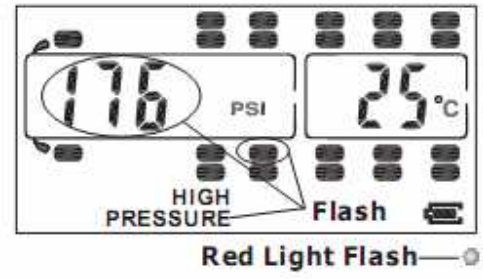
The Sensors send tire pressures to the monitor every 5 minutes for monitor updates, however if the readings are out of the set parameters for Pressure or Temperature the monitor audible and visual alarm will activate immediately when switched on.
The alarm can be quieted by pressing any button however the visual light will continue to flash until the pressure or temperature is restored to your preset parameters.

OPTIONAL METHOD OF ENTERING SENSOR CODE

How to input sensor code into the monitor directly

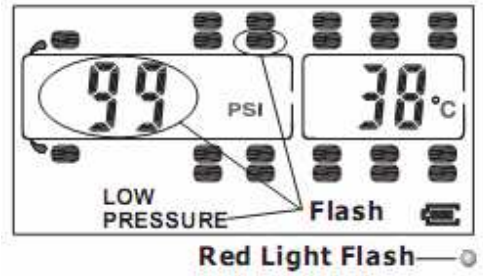
1 In Standby mode press the code button until you hear a beep
2 Press the + or - button to select the desired tire location for the sensor.
3 Hold the sensor next to the monitor, keeping other sensors out of monitor range.
3 Press the code button for 1 second the monitor will beep and show Id LF then the sensor code will appear.
4 Press the + or - button to move to the next sensor position and repeat with another sensor
5 Sensor code can be deleted on each wheel position by pressing the set button
6 After all sensors ID codes are input to the monitor, press the code button for 3 seconds to exit.
Note if a sensor is coded twice into the same monitor, the previous setting will be deleted automatically.

High Pressure Alert



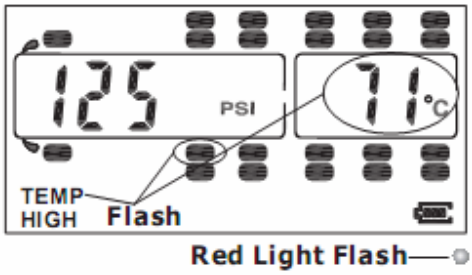
When a sensor detects a High Pressure it will immediately send an alert to the Monitor. The corresponding tire icon will flash along with its reading and The HIGH PRESSURE icon will display along with the audible and visual alarm.

Low Pressure Alert



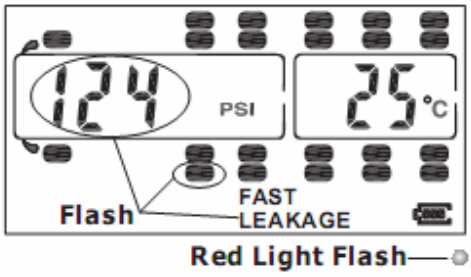
When a sensor detects a Low Pressure it will immediately send an alert to the Monitor. The corresponding tire icon will flash along with its reading and The LOW PRESSURE icon will display along with the audible and visual alarm.

High Temperature Alert



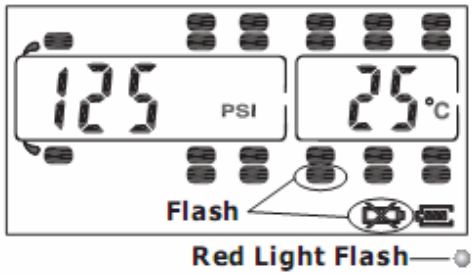
When a sensor detects a High Temperature it will immediately send an alert to the Monitor. The corresponding tire icon will flash along with its reading and The TEMP HIGH icon will display along with the audible and visual alarm.

Fast Leakage Alert



When a sensor detects an abnormal loss of air pressure it will immediately send an alert to the Monitor. The corresponding tire icon will flash along with its reading and The FAST LEAKAGE icon will display along with the audible and visual alarm.

Sensor Low Battery Alert



When a sensor detects a sensor has a low battery it will immediately send an alert to the Monitor. The corresponding tire icon will flash and The LOW BATTERY icon will display along with the audible and visual alarm. cancellation of the audible alarm with the pressing of any button will still leave a flashing red light and a low battery icon until a new sensor battery is installed

CONNECTING/DISCONNECTING TRAILER OR TOWED VEHICLE

To remove the trailer display from the Monitor Press LINK and "**-** " BUTTON together. To return the trailer display to the Monitor Press LINK and "**+** " BUTTON together

SENSOR SPECIFICATIONS

Operation Temperature	-40°C ~ 80°C
Storage Temperature	-40°C ~ 85°C
Pressure Range	0~13 bar, 0~188 psi
Pressure Accuracy	±1.5 psi(± 0.1 bar)
Temperature Accuracy	± 3°C
Transmission Power	<10dBm
Transmission Frequency	433.92MHz
Battery Life	2 years (CR1632 -40°C~80°C)
Size	diameter 24mm height 19.5mm
Weight	15 grams Cap, 22 grams Feed through

MONITOR SPECIFICATIONS

Operation Temperature	-20°C ~ 80°C
Storage Temperature	-30°C ~ 85°C
Charger Input Voltage	DC 8 ~ 30V
Frequency	433.92MHz
Size	116mm Length x 68mm Width x 25mm Height
Weight	138g

OPTIONAL SIGNAL BOOSTERS

An optional signal booster (ordered separately) is available from www.TPMS.ca or your HawksHead Dealer. This should not be needed on total sensor to monitor distances of 45 feet or less

Designed to boost the sensor transmitting range for vehicles with long distances from sensors to monitor or where sensors are shielded by bodywork etc causing sensor signal strength to be reduced and where extremely cold temperatures may reduce sensor battery power.

The booster should be installed as low as possible on the rear of the towing vehicle or at the front of the trailed vehicle. The hard wired booster should have 12v DC supply powered when the vehicle is moving. The red cable is + and the black – . There are two models of booster, Part number BOOSTER00 and Part number BOOSTER06. Booster part number BOOSTER00 is designed for drop and hook applications such as truck fleets where multiple trailers are used and requires the booster programming. Booster06 is designed for where the towed vehicle or trailer component will not change and is simply wired to 12 volts and does not need programming.

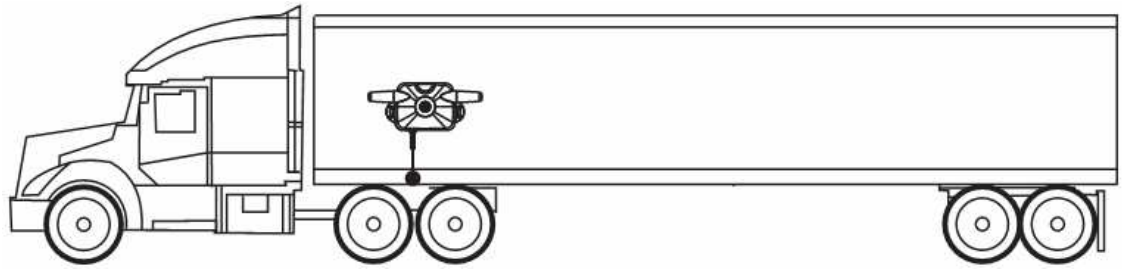
Installing BOOSTER06

Install to 12 volt supply at back of tow vehicle or front of towed vehicle.

Remove fuse for winter storage. Operates without any input from user.

Installing BOOSTER00

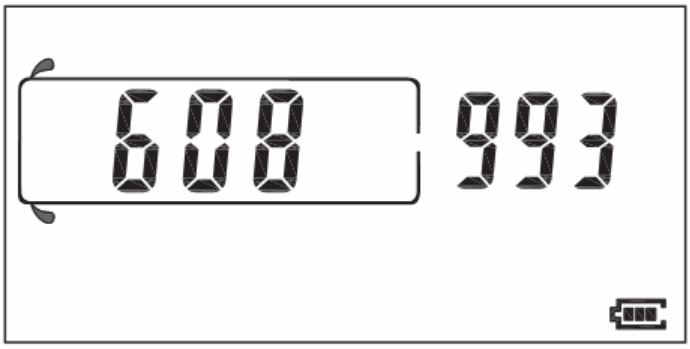
HawksHead TNT (Truck & Trailer) allows a Transceiver/Booster to transmit trailer data to the tractors monitor. Installing a transceiver on each trailer will allow the switching of different trailers between different tractors.



The transceiver should be mounted near the front of the trailer as can be seen in the illustration above. It should be powered with 12volts DC from the trailer

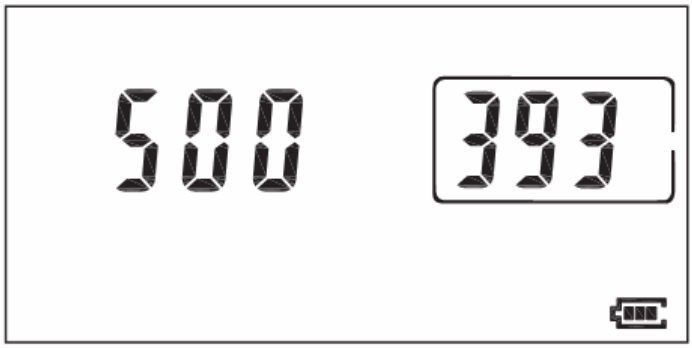
In a truck fleet it is common to have many tractors and many trailers. The transceiver allows the data from any trailer to be transmitted to any tractors monitor easily without having to set sensor codes all over again. This allows the system to monitor any combination of tractor and trailer in the fleet.

Entering Tractor and Trailer ID for the first time.
1 In standby mode press the LINK button on the monitor a six digit code will appear for the current tractor as below.



Example 1: Tractor ID (608993) and a flashing tractor.

2 Pressing the LINK button again will display the six digit ID for the trailer as below



Example 2: Trailer ID (500393) and a flashing trailer.

3 Pressing the LINK button again for the 3rd time the system will enter the Tractor ID coding mode this will allow you to change the code for that particular tractor the monitor is associated with. This is done by pressing the + or - button to change the numbers after each number is changed the CODE button should be pressed to save the digit change and move to the next digit.
After all digits have been set press the code button for 3 to save the Tractor ID code.

4 Pressing the LINK button again for the 4th time the system will enter the Trailer ID coding mode this will allow you to change the code for that particular trailer the monitor is associated with. This is done by pressing the + or - button to change the numbers after each number is changed the CODE button should be pressed to save the digit change and move to the next digit.
After all digits have been set press the code button foe 3 seconds to save the Trailer ID code. If no action is taken for 1 minute, the system will return to the standby mode without making any changes.

Sending data from the Monitor to the Transceiver for the first time.

If using the transceiver for the first time, you will need to code all the trailer sensors, ensure you have the correct ID, set the High and Low pressure and temperature alarms before sending the data to the transceiver. Ensure the transceiver is powered with the correct voltage of 12 volts.

1 In standby mode press and hold the LINK button on the monitor for 6 seconds to enter the sending mode. Do not release the button after hearing the first beep as it passes through the Accept mode. A flashing SEnd will be displayed on the monitor.

2 At this point press and hold the button on the transceiver for 3 seconds until a beep is heard. The monitor will now send the trailer ID and all the pressure and data etc to the transceiver. On successful transmission the monitor will issue a long beep along with the trailer ID and tire icons.

3 If the data is not received within 2 minutes the monitor will issue a double beep and a flashing **FAIL** will be displayed on the monitor.

Press any button or wait 3 minutes to return the monitor to standby mode.

NOTE the transceiver can only store the latest trailers data. It will automatically update the data in the transceiver if data is sent from the monitor.

Sending Data from the transceiver to the monitor (Trailer Exchange)

Press and hold the button on the transceiver for 3 seconds until you hear the second beep and the LED will light.

Press and hold the **LINK** button on the monitor for 3 seconds within 2 minutes of pressing the monitor button. The monitor should display the icons of the new trailer with a flashing **ACCEPt** message. At this point the monitor enters the receiving ID mode.

The transceiver will send the sensors ID pressure and temperature data and trailer ID to the monitor. The trailer icon will flash for 3 minutes then exit.

On receiving the data the monitor will display all the tire icons in the trailer and the trailer ID. Press any button within the 3 minutes period to escape and cancel the operation.

If there is an error and the monitor does not receive the data within 2 minutes, the monitor will issue a double beep and a flashing FAIL will be displayed with the flashing trailer icons.

Press any button or wait 3 minutes to return to the standby mode.

The transceiver can only store the latest trailers data even if no sensor data was recorded for tires in the trailer.

TESTING THE SYSTEM

The fast leak can be tested by unscrewing the sensors and retightening them before setting off on a trip. With the monitor in the drivers position, the alarm should activate and then reset on re tightening the sensors.

GENERAL INFORMATION

Tire pressure recommended operating pressures should be set when the ambient temperature is low or cold or where the tire has cooled down and is at a low temperature, out of the sun etc. Dramatic changes in tire pressure can occur because of increased or decreased ambient temperature; tire contact surface temperature, wheel and axle loads etc, these and other situations should be taken into consideration when setting initial tire operating pressures. This system cannot warn you of impending side wall failures or blowouts, 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 prior to departure and your realtime tire pressures and temperatures will be updated within 5 to 7 minutes on the Monitor. 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 *TALON System*, relies on a good air connection between the Sensors and the tire valve (known as the Dill Valve) which is located inside the tire valve stem.

The Dill Valve 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 do not allow the sensor to operate correctly, metal bodied stems or T-Valve type are recommended for best performance.

Should you have difficulty with a pressure sensor not operating correctly we recommend that you contact a tire professional to ensure that the tire stem and Dill Valve are installed and operating correctly. Do not use tire sealants or balancing compounds that can enter the sensor body when using this system. A filtered valve core may be an option but ensure nothing enters the sensor. Over a period of time tires may loose pressure naturally, through the tire itself or for other reasons such as rim leakage etc.

However after the *TALON* valve sensors (including locking mechanism, if fitted) are installed it is recommended that the sensor and valve stem be completely covered in a soapy solution of 1 part liquid soap to 2 parts water, to see if there are any air bubbles coming from the valve and sensor area indicating that the tire is leaking air.
If air bubbles are visualized in any of these areas, the tire may deflate and the ***TALON*** system will not operate correctly. The wheel sensors are weatherproof and can be run in the rain.
A tire professional should be consulted should any of these areas prove to be a problem
Please note, ***TALON Systems***, operates on an RF system, as with many RF tire systems this system can suffer from interference depending on the systems location thus causing the system to be inaccurate or not operate at all. We cannot guarantee that the display will receive the sensor signal accurately.
Purchasers of this product should not rely on this tire pressure monitoring system for safety and should check the condition and pressure of their vehicles tires on a regular basis as described by the manufacturer of the vehicle or tire manufacturer.
Tire pressures and temperatures are not the only things that can affect tire safety; we suggest daily visual inspections and checks by tire professionals.

LIMITED WARRANTY & GUARANTEE

If you are not happy with your purchase we offer a 30 day Money Back (Less S/H) Guarantee, if returned in original shipped condition with proof of purchase. Please contact the dealer you purchased it from
HawksHead will, within 12 months from date of original purchase, repair or replace free of charge any defective component (except batteries) which upon careful inspection is found, in our sole judgment, to have material or manufacturing defects, provided it is received freight prepaid, accompanied by the original purchasers sales slip and an authorized Return Merchandise Authorization number (RMA #.). You may obtain an RMA # by emailing RMA@TPMS.CA
DISCLAIMER OF WARRANTY: Neither the seller nor the manufacturer will be liable for any loss damage or injury directly or indirectly arising from the use or inability to determine the use of this product. Before using, the user shall determine the suitability of the product for its intended use, and the user shall assume all responsibility and risk in connection herewith.
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