

Table of Contents

Introduction 2

Quick Installation 3

Important System Operating Information - **PLEASE READ!** 5

Components & General Overview 9

Monitor - Power On-Off / Low Battery / Fuse in Power Cord 10

Monitor - Low Battery Indicator 10

Sensors - Battery Installation 11

Sensors - Low Battery Indicator 11

Sensors - Installation & Programming 12

Programming - Baseline Pressure Settings 13

Sensors - Theft Deterrent Locks 14

Checking Pressures & Temperatures 15

Customizing the Monitor Display (Kpa, BAR, PSI, kgf, plus °F or °C) 15

Deleting & Reprogramming - Sensors & Monitor 16

Alarm: Rapid Air Pressure Loss 17

Alarm: Quick Air Pressure Loss 17

Alarm: High Temperature - Stage 1 18

Alarm: High Temperature - Stage 2 18

Alarm: High Air Pressure 18

Alarm: Slow Air Pressure Loss - Stage 1 19

Alarm: Slow Air Pressure Loss - Stage 2 19

Alarm: Slow Air Pressure Loss - Stage 3 19

Mounting the Monitor 20

Interior Signal Booster Antennas 22

FAQ's - Frequently Asked Questions 23

Specifications 25

Product Components 26

Warranty 27

The **TireTraker™ TT-400C** is a highly sophisticated electronic device. Please take the time to [read this entire manual](#) as it will help you better understand the operation of the system.

Introduction

The **TireTraker™ TT-400C** is a full time wireless electronic tire pressure monitoring system (TPMS) designed to monitor and display tire pressures from 0 psi up to 145 psi, and also to monitor tire temperatures from 14°F to 185°F. It is capable of displaying current tire pressures and temperatures as you drive down the road.

The **TT-400C** is a monitoring system only, and will not prevent tires from losing pressure or failing. However, low pressure is the leading cause of premature tire failure and the **TT-400C** can provide early notice of potential problems and assist in maintaining proper pressuration in vehicle tires.

The **TT-400C** consists of two basic components: Tire Sensors/Transmitters, which screw onto the wheel valve stems, and a Monitor/Receiver located near the vehicle operator. Sensors transmit a coded RF signal and alert if pressure drops, pressure increases or temperature increases. The Monitor displays each tire's pressure and temperature per tire position and will display an audible and visual alert if pressure or temperature changes.

When used properly, the **TT-400C** will inform the driver of the tire pressures and temperatures on the vehicle so the operator may have the opportunity to make any necessary adjustments before a serious problem occurs. Tires and valve stems should be inspected thoroughly prior to installation of the system to ensure that they are in good condition and inflated properly. It is not uncommon to find valve stems that need replacing when installing your TPMS system. Even though metal valve stems are not required, we recommend the use of metal stems instead of rubber stems.

The **TT-400C** does not prevent low tire pressure, high tire pressure or high tire temperature; it alerts when the pressures or temperatures have changed, allowing action to be taken. A damaged Sensor or valve can cause pressure loss. Inspect your tires regularly.

The **TT-400C** cannot prevent tire/wheel overload. Overloading any tire is extremely dangerous and cause failure of any suspension component, not just tires. The only way to detect overloading is to weigh the vehicle. A vehicle should never be operated if the weight on any wheel is greater than the design specification. A correctly inflated tire can fail if overloaded.

Quick Installation

Install Batteries in Sensors (Page 11). Turn Monitor On (quick press of center button).

Baseline Pressure Programming on Monitor (cold pressures):

1. Determine which tire positions you will install Sensors on in **Figure 1**, and record your Baseline Pressures in those locations (example is shown in **Figure 2**).
2. On Monitor, Press & Hold 'CENTER' button until it beeps once (about 5 sec.), then release.
3. The #1 tire position will be flashing with the default pressure setting at 72.4 psi. If you will install a sensor at this position, Press the 'RIGHT' or 'LEFT' button to increase or decrease pressure. This should be the 'Cold Pressure' you usually run in that tire. Pressing and Holding the buttons scrolls faster - pressing individually scrolls slower.
4. Press 'CENTER' button to move to next location to be programmed.
5. Repeat Steps '3' + '4' above to set additional locations. Skip positions you will not use.
6. Once all baselines are set, You **MUST** exit by pressing & holding the 'CENTER' button continuously for 5 seconds. Monitor will beep once. You are now ready to begin Sensor installation.

Sensor Programming / Installation:

1. Physically carry Monitor, all Sensors and this Install sheet with you to the 1st Tire Position that you will install a Sensor, on the 1st vehicle (follow the diagram).
2. On Monitor, **Press & Hold** Both 'RIGHT' and 'LEFT' buttons simultaneously for 5 seconds - You must hold the buttons down at the same time. Tire Position #1 will flash and **Red LED** at top will be illuminated (all 22 tire positions will also display on Monitor).
3. Again, use the schematic in 'Figure 1' to reference the positions to install the Sensors.
4. If you will install a Sensor at Position #1, screw a Sensor on now (if not using Position #1, press 'RIGHT' button to go to desired position). Within 10 seconds, the **Red LED** should turn **GREEN**, indicating the Sensor has been successfully programmed at this position. If LED does not turn **GREEN**, try a different Sensor.
5. Once you receive a **GREEN** light, move to the next position by pressing the 'RIGHT' button and repeating **Step # 4**.
6. Once all sensors are installed, You **MUST** exit by pressing & holding the 'RIGHT' and 'LEFT' button simultaneously for 5 seconds. Monitor will beep once. You should now see only the tire positions that you have installed.

NOTE: THERE SHOULD BE NO RED OR GREEN LIGHT!

Quick Installation (continued)

Figure 1: Your Vehicle(s) - Enter Your Baseline PSI Here

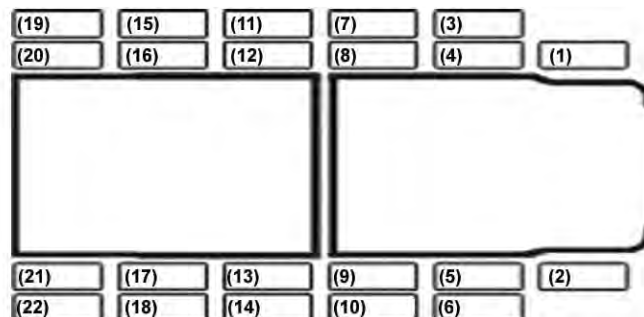
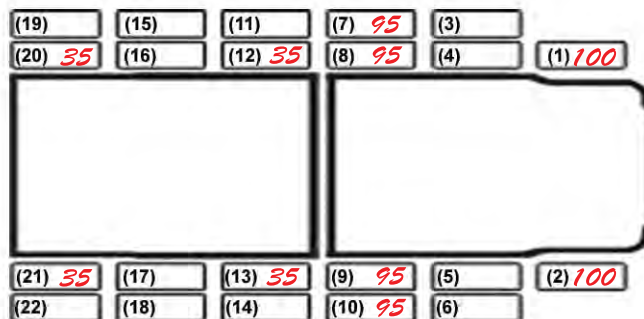


Figure 2: Example with Baselines Entered



Important System Operating Information - PLEASE READ!**'no5 or noS' Signal Indication - Low Battery Icon**

The system is activated by movement of the vehicle(s). When motion is stopped, the system enters a 'SLEEP' mode to preserve battery life. Initially, you may notice that the last pressures and temperatures recorded will show on the Monitor. You may then receive a 'no5' or 'noS' signal at various sensors, which stands for **NO SENSOR**. Also, the 'Low Battery Icon' may flash for these sensors. These are normal occurrences as the system enters the 'SLEEP' mode. When movement is initiated again, all sensors will return to normal within 20 minutes.

Disconnected Vehicle Shows Pressures and Temperatures

When you disconnect a tow vehicle or trailer and drive away, the last pressures and temperatures will continue to display on the Monitor for those vehicles. After a period of time, the system enters a 'SLEEP' mode to preserve battery life. You may then receive a 'no5' or 'noS' signal at various sensors, which stands for **NO SENSOR**. Also, the 'Low Battery Icon' may flash for these sensors. These are normal occurrences as the system enters the 'SLEEP' mode. Once the disconnected vehicle(s) are reconnected, and movement is initiated, the system will return to normal and will update with current readings on all sensors within 20 minutes.

Power Cord Indicator Light

When you plug the power cord into a 12V receptacle, the Green light will illuminate on the Power Plug. If the light is not illuminated, check the fuse by unscrewing the plastic end of the Power Plug. If the fuse is blown and needs to be replaced, replace with a 2 amp fuse.

Pressure Loss Alert After Driving (when parked or stopped)

When you park or stop the vehicle(s), pressure in a tire(s) may drop quick enough to signal a 'Rapid' or 'Quick' Pressure Loss Alert. This may occur because as you travel down the road, tire pressures increase due to heat and friction. A drop in pressure as the tire(s) cools

Important System Operating Information (continued)

of 6+ psi in less than 10 minutes can activate this alarm. If this happens, you will see both the 'Low Pressure Icon' and 'Leaking Icon' appear on the bottom of the Monitor. This is a normal occurrence because the tire(s) pressure has dropped within the parameters of the alarm settings, and does not indicate an actual leak.

Programming Additional Sensors at a Later Time

If you initially program the system for one vehicle only, without adding the additional vehicle, you will 'Install the Sensors First' then set the 'Baseline Pressures.' Begin by following the 'Sensor Programming / Installation' instructions. After programming of the additional sensors, and exiting the 'Sensor Programming / Installation' mode, the new tire positions will be displayed on the Monitor. At this time, the Monitor will be 'Beeping' and the LED will be flashing **RED**. This is because the 'Baseline Pressures' have not yet been programmed for the additional sensors. You must now program the 'Baseline Pressures' by following the instructions for 'Baseline Pressure Programming on Monitor.' After you exit 'Baseline Programming' mode, the Monitor will update with the new Baseline Pressures within 20 minutes. If you wish to have the Monitor update immediately, remove the Sensor(s) for 10 seconds and then re-install.

Erratic Pressure Readings on Tires

When the sensors are installed, the rubber nipple inside the sensor stem depresses the Dill Pin Valve (air release valve) inside the tire valve stem releasing air into the sensor, thus allowing the sensor to read the pressure. The Dill Pin Valve is screwed into the valve stem, and can sometimes be seated too deeply for proper contact with the sensor. With vibration and motion, this can cause the problem of erratic pressure readings. A 'valve adjustment tool' (available at Auto Parts stores) can be used to adjust the depth of the Dill Pin Valve.

CAUTION - Adjust 1/4 turn at a time only so as not to release all air from the tire. A simple way to detect this problem is by deleting and re-installing a different sensor at this location. If the problem persists at that location, it is most likely the valve.

Important System Operating Information (continued)**The Monitor needs to be Powered On for System Installation**

Simply 'Press and Release the Center Button' momentarily to turn Monitor on.
 Note - The Monitor should have a minimal charge upon purchase to allow basic programming. However, it may have accidentally discharged in transportation or during shipment. Simply plug into a 12V supply to charge.

CAUTION - If you have Aluminum Valve Stems

Most vehicles have Brass, Steel or Stainless valve stems installed. However, some newer cars, light trucks and SUV's may have a factory built in TPMS with Aluminum valve stems installed. The TireTraker™ TPMS sensors are Brass. Brass and Aluminum can sometimes fuse and corrode. If you suspect or know that you do have Aluminum valve stems, we recommend that you apply a small amount of Anti-Seize Compound to the valve stem threads. This product is available for a few dollars at most Auto Parts stores and Hardware stores.

Red Light is Blinking after Initial Programming

The system is tested with all the Baseline Pressures set at 72.4 psi. When you first install a sensor, and the pressure reads outside the alarm parameters for that tire at 72.4 psi, that tire (and any other) will immediately go into alarm. You now set the Baselines to their correct pressures, and the system will update in approximately 20 minutes and the alarm will cease. You can also force a quick update by removing the sensor(s) for 5 seconds, then re-installing.

Updating Pressures & Temperatures On The Monitor

We recommend shutting the monitor off completely at the end of each day or when you are not using the system (Page 10, Power Off). Power the monitor on approximately 20 minutes prior to moving again, and the monitor should update and show the current pressures and temperatures.

Note - If any tire has entered into an Alarm, the Alarm will occur immediately - the monitor does not need to update to enter an immediate Alarm

Important System Operating Information (continued)**Monitor Does Not Show PSI - Shows Kpa, BAR, etc.**

At some point during Baseline programming, this reading was accidentally changed by the user. It can be reset to the original setting by following the instructions on Page 15, Customizing the Monitor Display.

Sensor Will Not Read Pressure During Initial Programming

Although all the sensors are tested, occasionally one may not program correctly. A quick way to check is to try the sensor on a different wheel. If the sensor programs at the new position, it may be a problem with your valve stem (most often on inside duals).

Manual Gauge Shows Different Pressures Than The TPMS

The TireTraker™ TPMS sensors have been calibrated with ISO equipment in a controlled setting. This results in a much more accurate reading than most pressure gauges you may have.

Permanently Wiring The Monitor To A 12 Volt Power Source

Do not wire or connect the monitor permanently to a 12 volt power connection. The battery in the monitor should last about 3-4 weeks of use, 4 hours per day. Simply plug the power cord and monitor into a 12 volt source for at least 6 hours to maximize the charge. **Do NOT** leave monitor plugged in continuously - unplug once charged.

Sensor Batteries Appear To Be DOA (Dead On Arrival)

It is very important that the batteries be installed correctly in the sensors; Positive Side UP & Under The Bridge (Page 9). If not, you may burn out the battery.

Purchasing Additional Batteries (CR1632)

Many customers have found batteries at the discount prescription centers (Walgreen's, Rite-Aid, etc). They are readily available on many internet sites plus we also carry them in stock at all times.

Components and General Overview

The **TT-400C** TPMS consists of a wireless Monitor/Receiver capable of monitoring up to 22 wheel positions. After programming the baseline pressure (usually recommended cold tire pressure) into the Monitor, a Sensor with an interior transmitter is attached to each wheel's valve stem in sequence.

Various levels of warnings are issued for pressure changes, both under and over, high temperatures and low battery status.

The Monitor/Receiver comes pre-charged so you can begin programming the system immediately. It is also programmed to measure tire pressure in 'psi' and temperature in Fahrenheit (°F). However, the **TT-400C** can be modified to your preferences (see page 13).



Monitor Power On/Off and Low Battery

Power On:

Press & Release the Center Button to turn on the Monitor. The unit will now receive information from all Sensors once the Sensors are programmed.

Power Off - Should Be Done Every Night:

After 15 minutes of no activity, the **Monitor** will enter '**Sleep Mode**'. It is not Fully Off. We recommend that you turn **Monitor** off completely. To turn off, **Press & Hold the Center Button** for 8 seconds continuously (do not release).

Note: the unit will enter '**Baseline Pressure Setting Mode**' after the first 5 seconds. Continue to hold down the button for the 3 additional seconds to turn the system off - Do not release or you will need to begin **Power Off** again from Normal mode.

Low Battery - Monitor:

The Monitor has a built-in lithium battery, which under normal circumstances may function for up to 30 days before requiring a recharge. When the battery is low, an outline of a Battery plus the word 'monitor' will appear on the Monitor screen. A buzzer will also sound for 10 seconds. After 5 minutes, the Monitor will power off. To recharge, simply use the supplied 12/24V car charger. A full charge will take approximately 6 (six) hours.

Power Cord - Fuse:

If the '**GREEN**' light is not illuminated on the power cord, unscrew power cord tip and check fuse. Replace with 2 amp fuse if necessary.



DO NOT leave Monitor plugged in at all times. Charge for a maximum of 12 hours and then disconnect from power source



Do not leave Monitor plugged in for more than 12 continuous hours.

Battery Installation - Sensors

Each tire Sensor is powered by a **CR1632** Lithium Battery. These batteries are readily available at most stores.

The batteries must be installed prior to mounting the Sensors on the vehicle's wheels.

Under normal use, the batteries should last approximately 1 year.

Installing the Batteries:

- A. Remove the black battery cover by unscrewing the black cap (counter-clockwise).
- B. Insert the battery **UNDER** the metal clip with the +(plus) side up. Incorrect insertion can burn out sensor circuit.
- C. Replace the black cap by screwing the cover on (clockwise).
- D. Cover should be hand tight. **DO NOT** use any type of pliers to tighten cover.

Sensor Low Battery Warning:

When a Sensor battery is low on power, an outline of a battery plus the word 'sensor' will appear on the Monitor. The exact tire position will flash and the Monitor will 'beep' for 10 seconds. Replace batteries as indicated above.

Note - It is common to see the a 'sensor' low battery warning when the vehicle's motion is stopped. This is normal because the Sensors have entered the 'Sleep' mode, and will return to normal once vehicle motion is again started.



Sensor Installation & Programming

The simplest method of Sensor installation is to carry the **TT-400C** Monitor with you as you walk around the vehicle(s) installing the Sensors on each valve stem.

Each Sensor has its own unique electronic ID code, and once installed on each tire, will memorize the installed position in reference to the Monitor. Even with the Monitor off and the Sensors removed for any period of time, the locations will remain in memory.

If you remove the Sensors at any time, we suggest that you physically mark them so that you can easily re-install to the same positions without the necessity of reprogramming. Using and marking an empty egg carton is a convenient way to store your Sensors. If, for any reason, you are unsure of a Sensor's proper location, you should delete the Sensor and re-install following below instructions.

To Install and Program Sensors:

- A. **Press & Hold both Right & Left Buttons** simultaneously for 5 seconds. Tire position will flash and **Red** LED will be illuminated.
- B. **Install** any Sensor at the location flashing on the screen. LED will turn **Green** and current psi will be displayed within 30 seconds. If synchronization is not achieved, remove the Sensor for 10 seconds and re-install.
- C. **Press Right or Left Button** to move to next desired position (you may skip positions not being used). LED will be **RED**.
- D. Repeat Steps 'B' and 'C' until all sensors are installed.
- E. You **MUST NOW EXIT**. **Press & Hold both Right & Left Buttons** simultaneously for 5 seconds. Monitor will revert to Normal Mode.



Programming - Baseline Pressures

The TT-400C Monitor allows you to program the baseline pressure (usually this is the recommended cold tire pressure) into the Monitor. Each tire is programmed individually, and each tire can be programmed for a separate baseline pressure.

1. A **Low Pressure-Slow Loss** alarm will alert when the tire pressure initially drops by 15% below the baseline pressure setting which you have entered for each tire independently.
2. A **High Pressure** alarm will alert when the tire pressure rises by 25% above the baseline pressure setting which you have entered.
3. The percentages cannot be changed. But, by changing the baseline pressure settings, you can essentially change the alarm to alert sooner. Example: Baseline pressure is set at 100 psi - alert will occur at 85 psi (15% below baseline). By changing baseline setting to 110 psi - alert will occur at 93.5 psi (at only a 6.5 psi loss from the 100 psi cold pressure).
4. We recommend programming the Baseline Pressures of all the tires that you will install sensors on at first set-up, even if you will install some sensors at a later date. If you **DO NOT** program all the Baseline Pressures initially, when you install the additional Sensors at the later date, you must program the Baseline Pressures **AFTER** installing those remaining Sensors.
5. It is not necessary to set the Baseline Pressures of any tire locations that you will not be utilizing - The settings at those locations do not matter.

To Program Baseline Pressure Settings:

- A. **Press & Hold Center Button** for 5 seconds.
- B. **Press Center Button** to move to desired location.
- C. **Press Right or Left Button** to change pressure.
- D. **Press Center Button** to move to next position.
- E. Repeat Steps 'C' and 'D' above.
- F. You **MUST NOW EXIT**. **Press & Hold Center Button** for 5 seconds. Monitor will 'Beep' and revert to Normal Mode after another 5 seconds.



Sensor Theft-Deterrent Devices

The TT-400C comes equipped with Theft Deterrent Locks designed to be installed with the Sensors.

These locks are meant to be a Theft Deterrent device only. It is your option whether you wish to install these locks or not.

For your convenience, we have included a small screwdriver to aid in installing the locks. Please store in a convenient location for re-use.

Installing the Sensor Locks:

- A. Slip the Black Locking Ring over the valve stem first with the two (2) tabs outward.
- B. Screw on Sensor (finger tight only).
- C. Raise the Black Locking Ring up to the Sensor until the 2 tabs engage in the Sensor slots.
- D. Tighten the three (3) set screws with supplied screwdriver.
- E. To remove Sensor, simply reverse procedure.

Note - Using the Sensor Locks

The Sensor locks are not required to be installed - They are optional. In our experience, most customers do not use the locks and theft has not been a major problem.



Checking Pressures and Temperatures

The **TT-400C** will continuously monitor all tires which have been programmed displaying the current pressure and temperature of each tire while in motion.

To Check Each Tire's Pressure & Temperature:

- Press either **Right or left Button** from Normal mode. The tire position will be displayed along with that tire's current pressure.
- Press **Button Again** and that tire's temperature appears.
- Repeat steps 'A' and 'B' above to scroll through remaining tires.

Only tire positions where Sensors have been installed will display. If a Sensor has been programmed, and the signal has been lost when driving, the display will show 'noS'. When stopped, an 'noS' indication is normal because the Sensors have entered the 'Sleep' mode.



Customizing the Monitor Display

Options: Kpa, BAR, PSI or kgf/cm plus °F or °C

- Press & Hold **Center Button** simultaneously for 5 seconds to enter 'Baseline Pressure Setting' mode.
- Press & Release **Center Button** to scroll through each tire.
- After **tire #22** (or the last tire you set), the pressure unit will flash.
- Press **Right or Left Button** to scroll through each Kpa, BAR, etc.
- Press **Center Button** to confirm your choice and display temperature unit.
- Press **Right or Left Button** to alternate between °F or °C.
- Press **Center Button** to confirm your choice.
- Press & Hold **Center Button** simultaneously for 5 seconds to exit.

Sensor - Deleting and Reprogramming

There may be occasions when the **TT-400C** Sensors may need to be deleted or reprogrammed.

Delete and Reprogram If:

- The TPMS is moved to another vehicle with different tire pressures.
- A Sensor needs to be replaced.
- Additional Sensors are to be added.



How to Delete/Clear Program and/or Reset Sensors:

- Press & Hold **Both Right & Left Buttons** simultaneously for 5 seconds.
- Press **Right or Left Button** until desired tire position is flashing.
- Press & Hold **Center Button** until only '--psi' is displayed and LED turns **Red**.
- If **Replacing** a Sensor, install it now to the selected position. LED will turn **GREEN** and current psi will be displayed within 30 seconds. If synchronization is not achieved, remove the Sensor for 10 seconds and re-install.
- If position is to be left un-monitored, you **MUST EXIT** program.
- Press & Hold **Both Right & Left Buttons** simultaneously for 5 seconds. Monitor will revert to Normal mode.

Alarm Modes - Rapid & Quick Pressure Loss

The **TT-400C** monitors tire pressures and temperatures in real time, once the vehicle(s) are in motion. There are multiple levels of alerts which vary in style and intensity depending on the severity of the abnormality. Should an alert sound, It is recommended that you safely move your vehicle to the side of the road away from traffic.

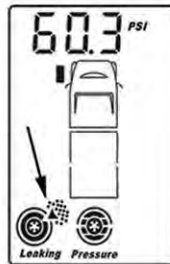
Please be cautious at all times.

Rapid Air Pressure Loss Alert:

Pressure drops by 3+ psi in less than 2 minutes off of Current Operating Pressure, NOT Baseline

Alert Description:

- A. Constant audible 'Beep Beep'.
- B. White LCD screen flashes & **Red** LED flashes.
- C. Tire position flashes with current psi.
- D. **'Blow Out'** Icon appears in lower left corner.



Quick Air Pressure Loss Alert:

Pressure drops by 6+ psi in 2 to 10 minutes off of Current Operating Pressure, NOT Baseline

Alert Description:

- A. Intermittent audible 'Beep Beep'.
- B. **Red** LED flashes.
- C. Tire position flashes with current psi.
- D. **'Leaking'** Icon appears in lower left corner.



To Turn Off Alerts, Press Right or Left Button

Alarm Modes - High Temperature & High Pressure

High Temperature Alert - Stage 1:

Internal Temperature reaches 167° F

Alert Description:

- A. Intermittent 'Beep'.
- B. **Red** LED flashes.
- C. Tire position flashes with current temperature.
- D. **'Temp'** Icon flashes in lower right corner.



High Temperature Alert - Stage 2:

Internal Temperature reaches 185° F

Alert Description:

- A. Constant 'Beep Beep'.
- B. **Red** LED flashes.
- C. Tire position flashes with current temperature.
- D. **'Temp'** Icon flashes in lower right corner.



High Air Pressure Alert:

Psi increases by 25% over Baseline Pressure Setting

Alert Description:

- A. Intermittent 'Beep Beep'.
- B. **Red** LED flashes.
- C. Tire position flashes with current psi.
- D. **'Pressure'** Icon flashes - shows pressure expanding.



To Turn Off Audible Alarm, Press Right or Left Button

Alarm Modes - Slow Pressure Loss

Slow Air Pressure Loss Alert - Stage 1:

Psi decreases by 15% under Baseline Pressure Setting

Alert Description:

- A. Intermittent 'Beep' every 15 sec. for 5 minutes..
- B. **Red** LED flashes.
- C. Tire position flashes with current psi.
- D. 'Pressure' Icon flashes and shows 75% full.

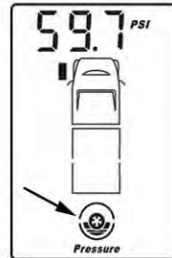


Slow Air Pressure Loss Alert - Stage 2:

Psi decreases by 25% under Baseline Pressure Setting

Alert Description:

- A. Intermittent 'Beep' every 15 sec. for 5 minutes..
- B. **Red** LED flashes.
- C. Tire position flashes with current psi..
- D. 'Pressure' Icon flashes and shows 50% full.

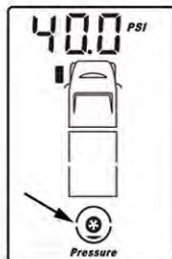


Slow Air Pressure Loss Alert - Stage 3:

Psi decreases by 50% under Baseline Pressure Setting

Alert Description:

- A. Intermittent 'Beep' every 15 sec. for 5 minutes..
- B. **Red** LED flashes.
- C. Tire position flashes with current psi..
- D. 'Pressure' Icon flashes and shows Empty.



To Turn Off Audible Alarm, Press Right or Left Button

Mounting the Monitor

The TT-400C comes equipped with a **Pedestal Mounting Bracket**. This is not required to use - many customers simply use Hook & Loop tape (Velcro).

The **Pedestal Mount**, with suction cup, allows the Monitor to be mounted on any smooth, flat surface, window or windshield. Be sure the mounting surface is clean and free of any grease or oils.



Assembly of Arm Bracket to Universal Cradle:

- A. Place the ball joint on the Arm Bracket as shown in Figure 1 below.
- B. Use your thumb to press down the lock and slide the tip securely in place as shown in Figure 2 and Figure 3 below.
- C. To remove the Arm Bracket from the Universal Cradle, press the lock and remove.



Mounting the Monitor (continued)

Connecting the Unit to the Surface:

- A. Be sure that the Lever is in the Up position as shown in Figure 4 below.
- B. Remove the film on the bottom of the suction cup.
- C. Press the suction cup onto the surface, and then push the lever down as shown in Figure 5 below.

Removing the Unit from the Surface:

- A. Pull the Lever up and then pull Arm Bracket away from the surface as shown in Figure 6 below.



Figure 4

Figure 5

Figure 6

Inserting the Monitor into the Cradle:

- A. Open the arms of the Cradle by pressing the Release button on the back.
- B. Be sure to rest the Monitor on the bottom arms of the Cradle.
- C. It is best to use **2 Hands** to close the side arms until the Monitor is in place.

Adjusting the Angle of View:

- A. Loosen the tightening nut, and adjust the Cradle to the desired position.
- B. Once proper adjustment is made, retighten the nut.

**Do not adjust or disassemble the Unit while driving.
Focus on the road at all times to avoid accidents.**

Interior Signal Booster Antenna

The **TT-400C** has an option of adding an **Interior Signal Booster Antenna** should signal loss occur.

Although the **TT-400C** systems have been tested and are designed to work well over long distances, there are occasions where a vehicle or other outside sources may emit electronic interference causing the loss of RF Signal from the Sensors/Transmitters.

Loss of signal can also occur due to increased distances from tires to the Monitor/Receiver, extreme cold conditions, construction of vehicles, engine type & location, # of slide-outs, etc.

No additional programming is required once an **Interior Signal Booster Antenna** is installed. The **Interior Signal Booster Antenna** is designed to automatically receive the signals from all the Sensors and transmit this information to the Monitor.



TT100A - As shown above, requires wiring to a 12 volt DC power source.

- Motorhomes - Booster is usually installed in the rear bedroom closet.
- 5th Wheels - Booster is usually installed in front bedroom area.
- Trailers - Booster is usually installed in front area of trailer.

FAQ's - Frequently Asked Questions

Does the Monitor need to be continuously powered by a 12 Volt plug?

The Monitor comes pre-charged allowing quick installation. Charge for 6 hours to fully charge. Monitor will operate for approximately 20-30 days before recharging.

Why is temperature monitoring important?

Low pressure is the most common cause of tire problems. However, temperature monitoring can sometimes detect overheating and internal wheel problems, such as bearing failure and brake sticking problems.

What causes a 'noS - No Signal Warning' and is a Signal Booster needed?

A 'noS - No Signal Alert' can be caused from low batteries, excessive distances between Sensors and Monitor, electronic interference, etc. As with all RF products, signal loss can occur, and the addition of an Interior Signal Booster may be needed. Note - While parked, it is common to receive a 'noS - No Signal Alert' and a low battery indication because the Sensors have entered the 'Sleep' mode.

What should I do if an alarm is indicated?

If possible, move the vehicle to the side of the road immediately. Determine the cause of the alarm. Professional assistance may be required.

Are metal valve stems required?

Metal stems are not required. However, most valve stem failures occur due to rubber valve stems, and we recommend metal stems in place of rubber stems.

Is it OK to use valve extensions?

If using valve extensions, insure quality stems are installed. We believe it is safer to add extensions to enable the installation of a TPMS than to operate without.

What happens when I disconnect my Toad or Trailer?

When disconnected, the Monitor will continue to display the vehicle's last monitored pressure and temperature reading. When the vehicle is reconnected and moving, the pressure and temperature readings will update with current information.

What is the Sleep Mode?

After no motion for 15 minutes, the system enters 'Sleep Mode', saving system power. When system 'awakes', the last shown readings will be displayed. Once motion begins, the system will update with current readings.

FAQ's - Frequently Asked Questions (continued)

Can the Monitor be permanently wired to a 12 volt power source?

The Monitor requires a 12 volt charge for 6-12 hours only. It should **not** be left continuously connected to power or permanently wired to a 12 volt source. Continuously connecting the monitor will shorten monitor battery life.

Why does my manual gauge show different pressures than the TT-400C?

The TT-400C is a highly sophisticated wireless electronic TPMS. Electronic TPMS have been proven to be much more accurate than manual tire gauges.

What if I need to change the Baseline Pressure Setting for any tires?

Enter the "baseline Pressure Setting" mode, and adjust the pressures for the tires desired. The Monitor will update to the new settings in about 20 minutes.

What if I need to change or add a Sensor?

Once the sensors are programmed to their initial position, you must first delete the sensor from its original position, and reprogram to a new position. Be sure to adjust the 'Baseline Pressure Settings' if necessary.

What happens when I remove Sensors to inflate or check tire pressures?

When you remove a sensor and adjust the pressure, the Monitor will update and show the new pressure reading once the sensor has been reinstalled.

Will the Monitor store the settings if turned off for an extended time?

The Monitor will store the 'Baseline Pressure Settings' and 'Sensor Location Information'. No reprogramming is necessary.

What if I remove the Sensors while my vehicle is in storage?

On initial setup, the Sensors are programmed to each respective tire location. Once removed, it is recommended that the Sensors be marked with some type of identification so you will know the position to reinstall. An empty egg carton is a convenient storage item.

What if I add additional Sensors to my system at a later date?

When you add additional Sensors, you must **FIRST** install the Sensors to each position you will be using. **SECOND**, you will program the Baseline Pressure settings. We recommend setting all the Baseline Pressures on initial set-up. By doing this, you will simply install the additional Sensors at the later date.

Specifications

Sensor/Transmitter:

Dimensions	0.8" x 0.8" x 0.9"
Weight	0.4 oz (without Battery)
Battery Voltage	3 Volt DC (CR1632)
Battery Life	1 Year
Standby Current	500 nA
Working Current	6 mA
Pressure Range	0 psi to 145 psi
Pressure Precision	+/- 2.7%
Temperature Range	-4° F to 185° F
Temperature Precision	+/- 5° F
Signal Transmitting Frequency	433.92 MHz
Operating Distance	Up to 65'

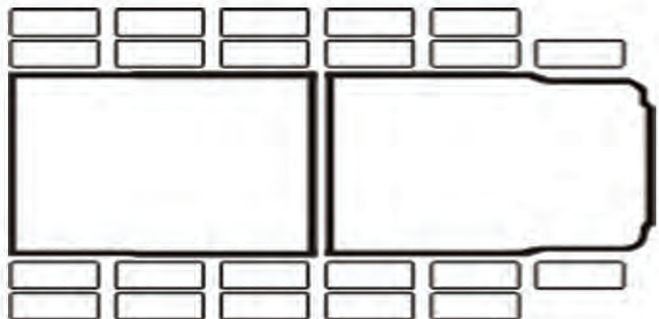
Monitor/Receiver:

Dimensions	3.5" x 2.2" x 0.9"
Battery Life	Up to 30 days
Standby Current	0.1 mA
Working Current	15 mA
Working Voltage	3 Volt DC
Working Temperature	-4° F to 140° F
Signal Receiving Frequency	433.92 MHz
Backlight Color	White

The **TT-400C** is a device for displaying tire pressures and temperatures, and displaying an alert for changing conditions. As with all devices that use RF signals, the signal can be interrupted. The **TT-400C** has been designed to work optimally to overcome interference that car clock signals. As with all RF devices NO signal guarantee can be made, and the addition of the optional Signal Booster may be required.

Product Components

Name	Quantity
Sensor	← 22 pieces
Monitor	1 each
Mounting Bracket	1 each
12/24 V DC Power Plug (2 amp fuse in tip)	1 each
Anti-Theft Locking Collars with Allen Wrench	1 set
CR1632 Lithium Battery	← 22 pieces
User Manual	1 Book



Monitor Schematic

Warranty**LIMITED WARRANTY**

Subject to the limitations and exclusions set forth in this Limited Warranty, the **TireTraker™ TT-400C** system is warranted against defects in materials or workmanship that result in a product failure under normal use during the warranty period following the date of purchase by the original end-user. This Limited Warranty applies only to claims made by the original end-user and cannot be assigned, transferred or conveyed to any subsequent users. The exclusive remedy for any product determined by **TireTraker™ TPMS** to be defective within such period shall, at the sole option of **TireTraker™ TPMS**, be the repair or replacement of such defective product or the refund of the purchase price therefore. No other remedy shall be available.

EXCLUSIONS FROM COVERAGE

This Limited Warranty does not apply to any claims arising from misuse, abuse unauthorized repair or alteration, circumstances where the **TireTraker™ TT-400C** system is improperly installed contrary to the **TireTraker™ TT-400C** system instructions; or damage of 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 upon which the **TireTraker™ TT-400C** system is installed.

LIMITATIONS

This Limited Warranty is expressly in lieu of all other express or implied warranties, including without limitation, the implied warranty of merchantability and the implied warranty of fitness for a particular purpose, and all other obligations or liabilities on the part of **TireTraker™ TPMS**. This Limited Warranty specifically excludes all incidental, special or consequential damages. In no event, and for no cause whatsoever, shall **TireTraker™ TPMS** have any liability to any party in excess of the original purchase price of the product in question. Your dated sales receipt will act as proof of warranty coverage, and the warranty will expire at the conclusion of the established warranty period.

Warranty (continued)**EXCLUSIVE AGREEMENT**

This Limited Warranty is a complete and exclusive statement of the warranties which apply to the **TireTraker™ TT-400C** system. 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 **TireTraker™ TPMS**, except as authorized in writing.

STATUTE OF LIMITATIONS

In purchasing the **TireTraker™ TT-400C** system, you agree that any action for breach of contract or warranty must be commenced within the specified warranty period.

PROCEDURE

Products determined to be defective within the terms of this Limited Warranty should be returned to **TireTraker™ TPMS**, transportation prepaid. Contact **TireTraker™ TPMS** for return authorization. No unauthorized returns shall be accepted. Sender is responsible for all costs incurred in the removal or reinstallation and shipping of the returned product. A copy of the sales receipt from the point of purchase must accompany the returned product.

APPLICABLE LAW

The internal laws of the State of Texas, USA shall govern this Limited Warranty, and the exclusive venue for any dispute in connection with the purchase or use of the product shall be the state and federal courts of general jurisdiction located in the State of Texas, USA.

For Warranty Return Authorization, Contact;

TireTraker™ TPMS
936-329-2364
info@tiretraker.com

Please register your system at www.tiretraker.com
to confirm Warranty coverage