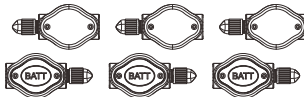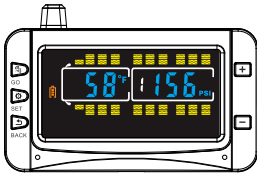# Wireless Tire Pressure and Temperature Monitoring System Instruction Manual

Model#: T1 Wide Screen Display
ST Flow-through Sensors

Thank you for purchasing the Tire Pressure Monitoring System.
With minimal care, your new TPMS will provide reliable
service for many years. Please read and understand
the information contained within this manual.
Keep this manual for future reference.

INDEX

SENSOR FEATURES

1) The sensors easily install on the valve stem.
2) Sensors are water resistant.
3) Pressure and temperature data is read every five (5) minutes.
4) Removal of a sensor (0 PSI pressure) will shut off the sensor battery.
5) The sensor batteries last approximately one (1) year and are user replaceable.
6) Tire leaks and high temperatures are detected quickly.
7) Tires can be inflated without removing the sensor.
8) Each sensor has a unique, six (6) digit code for programming.
9) Sensors feature an anti-theft design using the included hex nuts.

DISPLAY FEATURES

1) Large, wide screen LCD display of pressure and temperature.
2) Options for Color or Monochrome screen.
3) Suction cup and cradle mount included.
4) Integrated lithium battery that is rechargeable with provided cord.
5) Wake-up activation of display when in motion.
6) Automatic monitor illumination in dark conditions.
7) Programmable high and low pressure alarm thresholds.
8) Programmable high temperature alarm.
9) Visual and audible warning alarms when temperature or pressure exceeds
   thresholds.
10) Multiple pressure units: PSI or BAR.
11) Selectable temperature unit: °C or °F.
12) Program up to 110 tires.
13) Tire pressure and temperature is displayed simultaneously for quick viewing of
   each tire.
14) The trailer tires can be electronically removed from the screen when not towing.

15) The towing vehicle tires can be electronically removed from the screen when parked.
16) Push button programming.
17) A fully charged display will continuously operate 5-7 days on battery power.
18) Temperature and pressure settings are configured "per axle".

SYSTEM COMPONENTS IN KIT

Display and components
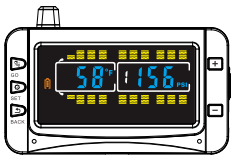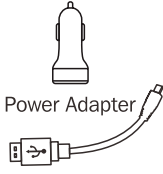
Color Display   Power Adapter   USB Cable   Cradle Mount   Suction Cup Mount   Repeater

Flow - through Sensors Components

FT Sensors   Extra "o" rings   Hex Nuts   FT Wrenches
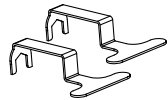
DISPLAY CONTROLS

On
Off Power
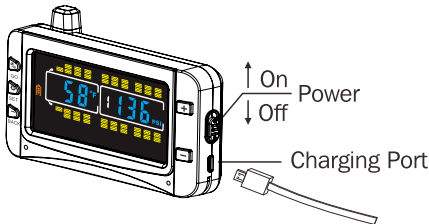
Charging Port

Display Holder

2

Antenna

GO
SET
BACK

Red LED indicator   Light Sensor

Pressure unit: BAR or PSI, user-selectable.
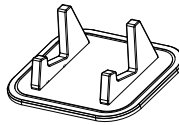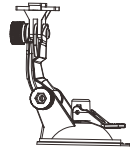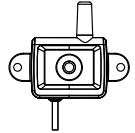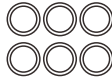Temperature unit: °C or °F, user-selectable.
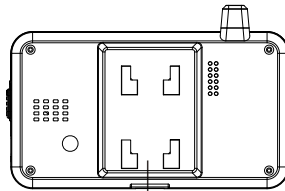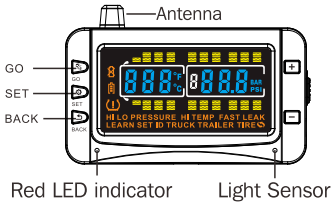
Icon	Description
≋	Tire
(!)	Warning
°F / °C	Temperature unit (Selectable)
BAR/PSI	Pressure unit (Selectable)
🔋	Sensor low battery
🔋	Display battery indicator

PROGRAMMING SENSOR CODES INTO THE DISPLAY

Note: Your sensors will begin reading as soon as they are coded into the display. Once you go back to the Main Screen by pushing the "BACK" button twice, you may hear an alarm and see a pressure reading of "0". Simply press the (+) button quickly to silence the alarm.

Note: It is recommended to label each sensor first with the provided numbering code stickers, similar to the following pattern, before you code the sensors. This allows you to know which sensor is programmed to which tire position. You can also write in your sensor number pattern.
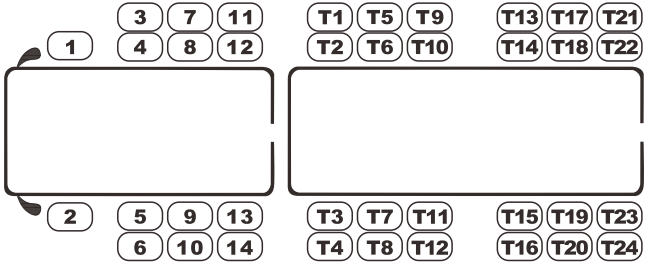
Or use your own numbering pattern:

3

AUTOMATIC CODE LEARNING (Option#1)

Note: Code all the sensors to the display BEFORE screwing them on to the tire valve stem unless otherwise noted.

1. Push and hold the "SET" button until it beeps. You are now in the programming mode. The "HI PRESSURE SET" parameter will blink at the bottom of the screen. Push the (+) button and scroll though the parameters until "LEARN ID" appears.

2. Quickly press and release the "SET" button. The first tire on the display will blink. If you want to program a different tire, press the (+) button to move to the correct tire. Push the "SET" button again and "FFF FFF" will flash. Put the sensor for that tire position next to the display and press the "GO" button. The display will capture the sensor code and show it on the screen. Again, push and release the "SET" button to save the code to that position. When coded correctly, a six (6) digit unique code will be shown.

3. Use the (+) button to move to the next tire position you want to program. Again, press the "SET" button and "FFF FFF" will blink. Put the sensor for that tire position next to the display and press the "GO" button to capture the sensor code. Press "SET" again to save.

4. When you are finished programming all of your sensors, press the "BACK" button to return to the parameter at the bottom of the screen. Use the (+) or (-) buttons to scroll to another parameter, if necessary. If finished programming, press the "BACK" button again to go to the Main Screen (Your sensors will begin reading "0" pressure and will alarm. Press the (+) button to silence the alarm while you continue your set-up).

Note: To delete a single sensor code:
Press the "SET" button until it beeps (approx. 3 seconds). Push the (+) button and scroll through the parameters until "LEARN ID" appears. Press and release the "SET" button. Use the (+) or (-) buttons to scroll to the tire you wish to remove. Press the "SET" button to select that tire. It will start flashing. Press the "BACK" button for 3 seconds. You will hear 3 beeps. The code will change to "FFF FFF" which will be flashing. Press "SET" once. The flashing will stop and the ID code will be deleted. If you do not want to delete the code, push the "BACK" button.

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Note: To delete all of the tire codes:

> To delete all the sensor codes when in the "LEARN ID" mode, press the "BACK" button for 6 seconds. You will hear 6 beeps. "DEL ALL" will appear on the screen. Press "SET" once. You will hear one beep. "FFF FFF" will appear. All ID codes are deleted. Press the "BACK" button twice to go to the Main Screen.

Note: When in the coding mode, the display will time-out within approximately one (1) minute if no buttons are pushed. At that point, you will have to start the coding process again.

Note: Be sure the sensor being coded is at least two feet away from the other sensors.

PRESSURE CODING (option #2)

1. Be sure your sensors are numbered. Screw the sensors partly onto each valve stem in the order you numbered them. Do NOT screw them down far enough to hear air hissing out.

2. Push the "SET" button until it beeps. You are now in the programming mode. The "HI PRESSURE SET" parameter will blink at the bottom of the screen. Push the (+) button and scroll through the parameters until "LEARN ID" appears.

3. Quickly press and release the "SET" button. The first tire on the display will blink. If you want to program a different tire, press the (+) button to move to the correct tire. Push the "SET" button again and "FFF FFF" will flash.

4. Tighten the sensor down on the corresponding tire valve stem. The ID code will display and flash.

5. To save the ID code setting. Press "SET" once. It will beep and the sensor code is saved.

6. To remove the ID code setting, Press "BACK" once. "FFF FFF" will re-appear. The setting will not be saved.

7. Press "BACK" twice to return to the Main Screen when done.

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MANUAL CODING (option #3)

Note: This method is mainly used to program sensor codes from an old display to a new display if you do not have the sensors available.

1. Push the "SET" button until it beeps. You are now in the programming mode. The "HI PRESSURE SET" parameter will blink at the bottom of the screen. Push the (+) button and scroll through the parameters until "SET ID" appears.

2. Quickly press and release the "SET" button. The first tire on the display will blink. If you want to program a different tire, press the (+) button to move to the correct tire. Push the "SET" button again and the first digit of "FFF FFF" will flash. Press the (+) button to select the correct number or letter. Press "GO" to move to the next position. Press the (+) button to change to the correct number or letter. Continue this procedure until all six digits are changed.

3. Press "SET" once to save the new codes. You will hear a beep and the code will stop flashing.

4. To stop the coding for any position, press "BACK" once. "FFF FFF" will reappear. No settings will be saved.

5. Press "BACK" twice to return to the Main Screen.

SENSOR INSTALLATION - Flow-through Sensor

1. Screw the hex nut onto the valve stem threads until it bottoms out.

2. Screw the correctly marked sensor onto the valve stem for that tire position. Tighten the sensor until the air stops leaking and the sensor bottoms-out on the valve stem. Then give it a slight twist to seat it. Do Not Over Tighten!

3. Using the provided wrench, tighten the hex nut onto the valve stem. This will prevent the sensor from being removed. Keep the wrench in a safe place for future use.

4. You can now inflate or deflate the tire through the 507FT sensor without removing it.
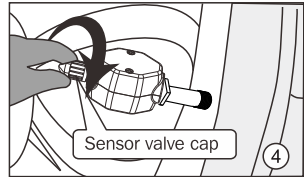

Anti-theft hex nut

Tire valve

①
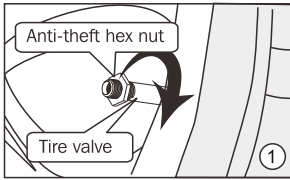
① Install the anti-theft hex nut onto the tire valve.

Sensor

②
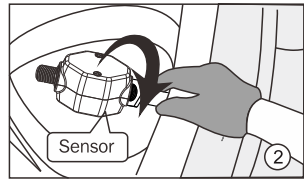
② Install the sensor onto the tire valve clockwise.


Specified wrench

Tighten the hex nut

③

③ Tighten the anti-theft hex nut counterclockwise until the nut is tightened against the sensor.

Sensor valve cap

④

④ Install the sensor valve cap onto the sensor.

DISPLAY INSTALLATION

1. The provided suction cup mount can be used on the windshield, side window or directly on a smooth dash. Snap the mount into the back tabs on the display to use. Alternately, use the dash cradle to hold the display.

2. Plug the power cord into the vehicle's cigarette lighter/power port and then into the side of the display to charge the internal lithium battery. Charge display for four (4) hours the first time.
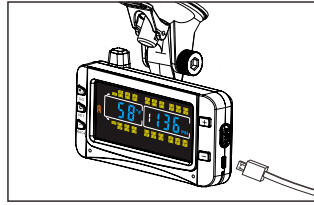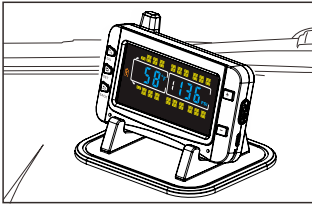
DISPLAY BUTTONS

- There are five (5) programming buttons on the display. They are: "GO", "SET", "BACK" on the left side of the display and (+) and (-) on the right side of the display.
- The power slide switch is located on the right side of the display. Slide it up to turn on the display. Slide it down to turn off the display.
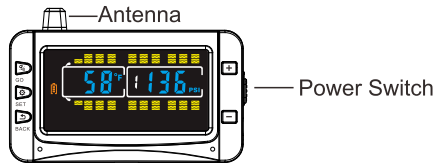
Note: The side power switch will not turn off the display when constant power is applied to the unit.

PARAMETER SETTINGS (Setting the sensor alarms)

Note: The factory default settings are:

Pressure Unit: PSI   Temperature units: °F
High Pressure: 175 PSI   High Temperature: 158°F (70°C)
Low Pressure : 100 PSI

Note: Be sure your display is ON and it is showing the Main Screen.

PRESSURE PARAMETERS

To choose the Pressure Parameter, press the "SET" button until it beeps. Press the (+) button three (3) times and "SET" will appear at the bottom of the screen and BAR/PSI will be blinking on the screen. Press the "SET" button again and then use the (+) button to select "PSI" (or "BAR"). Press "SET" again to select it. Press "BACK" to go back to the Main Screen.


## TEMPERATURE PARAMETERS

To set the Temperature Parameters (°F or °C), press the "SET" button until it beeps. Press the (+) button four (4) times and "SET" will appear at the bottom of the screen and °F / °C will appear on the screen, blinking. Press the "SET" button again and then use the (+) button to select °F or °C. Press "SET" again to select it. Press "BACK" to go back to the Main Screen.

HIGH TEMPERATURE ALARM SETTINGS

To set the High Temperature Alarm, press the "SET" button until it beeps. Press the (+) button twice and "HI TEMP SET" will appear. Again, press the "SET" button to enter that mode. Use the (+) or (-) buttons to adjust the High Temperature parameter, if desired. Press "SET" to save. When done press the "BACK" button.

Note: We recommend leaving this temperature setting at the default 158°F for all types of tires.
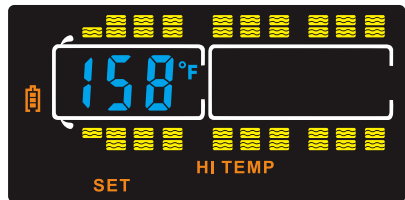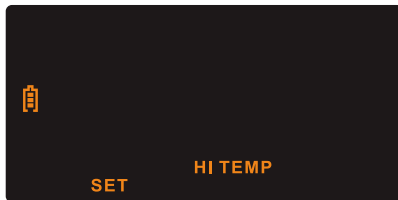
HIGH PRESSURE ALARM SETTINGS

To set up the High-pressure Alarm, press the "SET" button until it beeps. "HI PRESSURE SET" will appear at the bottom of the screen. Again, press the "SET" button to enter that mode. Press the "GO" button to select the appropriate axle. Use the (+) or (-) buttons to adjust the high-pressure alarm 20-25% over your normal tire pressure for that axle. Press the "GO" button to move to the next axle. When done setting each axle that you have sensors on, press the "SET" button to leave that parameter and go back to the menu. When done, press the "BACK" button to go to the Main Screen.

When you get to the Trailer Section of the display, all the tires will flash. You can now set all the trailer axle high pressures as one group.
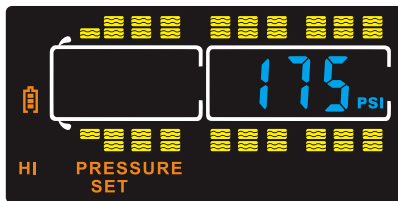
LOW PRESSURE ALARM SETTINGS

To set up the Low-pressure Alarm, press the "SET" button until it beeps. Press the (+) button once and "LOW PRESSURE SET" will appear. Again, press the "SET" button to enter that mode. Press the "GO" button to select the appropriate axle. Use the (+) or (-) buttons to adjust the low-pressure alarm 10% below your normal tire pressure for that axle. Press the "GO" button to move to the next axle. When done setting each axle that you have sensors on, press the "SET" button to leave that parameter and go back to the menu. When done, press the "BACK" button to go to the Main Screen.

When you get to the Trailer Section of the display, all the tires will flash. You can now set all the trailer axle low pressures as one group.

Note: If your tire pressure is below 100 PSI, you must set the low-pressure alarms first and then, when done, set the high-pressure alarms. The high pressure cannot go below the default low pressure of 100 PSI until the low pressure is reduced.