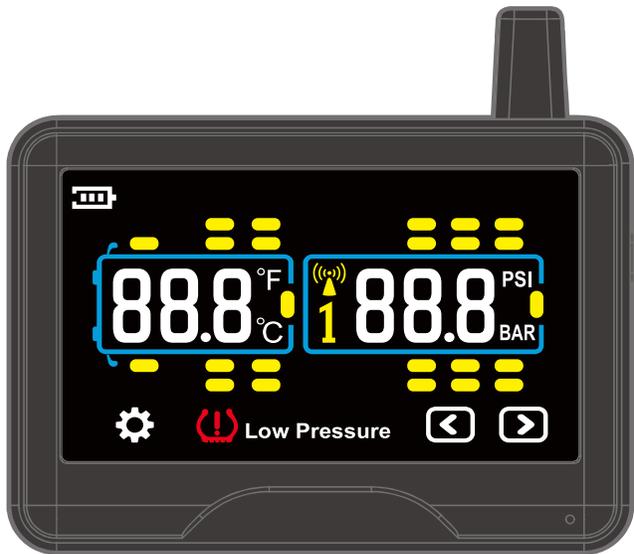


TPMS user manual

Model: CT07



CONTENTS

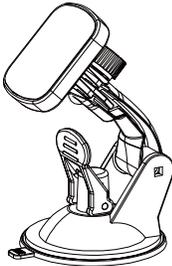
1. TPMS kit Contents	01
2. Monitor introduction	02
3. SYSTEM DEFAULT SETTINGS	03
4. COLD TIRE PRESSURE (CTP) SYSTEM DEFAULT SETTINGS	03
5. MAIN SCREEN	04
6. UNDERSTANDING YOUR TIRE ALERTS	05
7. OTHER FUNCTIONS	07
8. PARAMETER SETTINGS	08
9. COLD TIRE PRESSURE ALERT SETTINGS - POWER UNIT	09
10. COLD TIRE PRESSURE ALERT SETTINGS - TRAILERS	10
11. MANUAL HIGH/LOW PRESSURE ALERT SETTINGS	12
12. SWAP TIRE LOCATION	13
13. AUTOMATIC CODE LEARNING	14
14. AUTOMATIC CODE LEARNING (cont.)	15
15. CONNECT/DISCONNECT	16
16. CUSTOM VEHICLE ID	17
17. CUSTOM VEHICLE ID (cont.)	18
19. SENSOR BATTERY VOLTAGE	19
18. DATE & TIME SETTINGS	20
21. ABOUT	21
20. RESET	22
22. DISPLAY SPECIFICATIONS	23

1. TPMS kit Contents

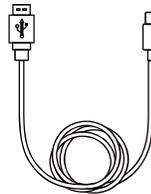
The monitor and accessories



5" Touch Screen Color Display
(1pc)

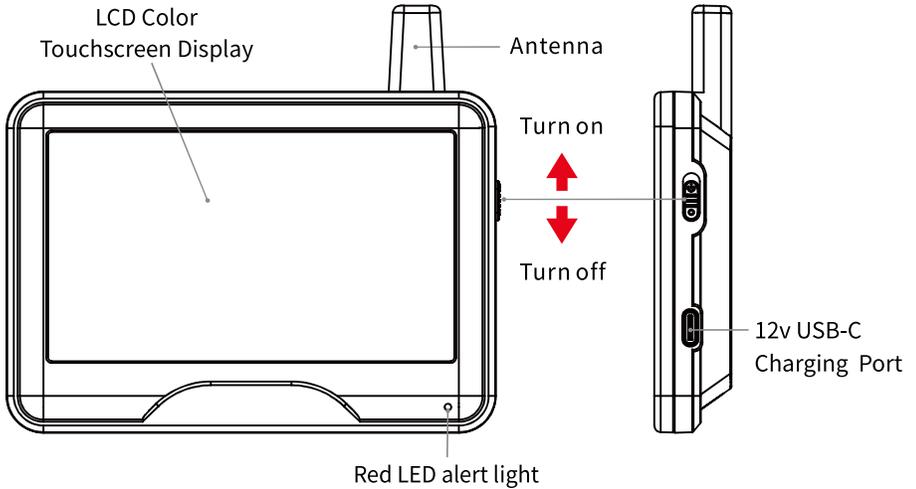


Suction cup
(1pc)



USB Cable
(1pc)

2. Monitor introduction



ICONS	Description	ICONS	Description
	Tire Icon		SETTING
	Tire Programmed		Signal Booster
	Tire Normal		Pressure Warning
	Tire Alert		Sensor Low Battery
PSI/BAR	Pressure Unit		Temperature Warning
°F/°C	Temperature Unit	1	Trailer Icon

3. SYSTEM DEFAULT SETTINGS

Pressure Unit	PSI
Temperature Unit	°F
High Pressure Alert	125 PSI
Low Pressure Alert	90 PSI
High Temperature Alert	158°F
Power Unit Cold Tire Pressure	
Steer Axle	100 PSI
Drive Axle	100 PSI
Spare Tire	100 PSI
Power Unit Manual Input High and Low Pressure Alert	
High (Axle1/2/3/S)	125 PSI
Low (Axle1/2/3/S)	90 PSI
Trailer Cold Tire Pressure	
Trailer # 1/2/3/4/5	100 PSI
Trailer Manual Input High and Low Pressure Alert	
High (Axle1/2/3/S)	125 PSI
Low (Axle1/2/3/S)	90 PSI

Note: Default pressure settings are based on the cold tire pressure. Once the customer enters into “Manual Input High and Low Pressure Alert” to set the cold pressure manually, “System is currently using manually input high/low pressure settings” will appear on the screen.

4. COLD TIRE PRESSURE (CTP) SYSTEM DEFAULT SETTINGS

Cold Tire Pressure (CTP) defaults alerts are 25% above CTP for High Pressure and 10% below CTP for Low Pressure.

Example Scenarios	
Steer Axle	CTP of 100 PSI
Axle 1 HIGH Alert	125 PSI (100 PSI CTP x 125% = 125
Axle 1 LOW Alert	PSI) 90 PSI (100 PSI CTP x 90% = 90
Drive Axle	PSI) CTP of 110 PSI
Drive Axle 2/3 HIGH Alert	138 PSI (110 PSI CTP x 125% = 138
Drive Axle 2/3 LOW Alert	PSI) 99 PSI (110 PSI CTP x 90% = 99
Spare	PSI) CTP of 120 PSI
Spare HIGH Alert	150 PSI (120 PSI CTP x 125% = 150
Spare LOW Alert	PSI) 108 PSI (120 PSI CTP x 90% = 108 PSI)

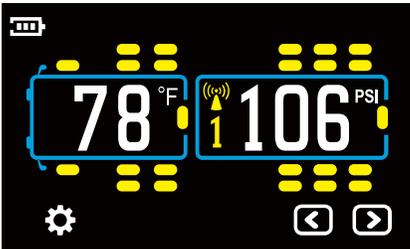
5. MAIN SCREEN

Remove protective film from Display by lifting the tab in the upper right corner.
Slide power slide switch to ON position.

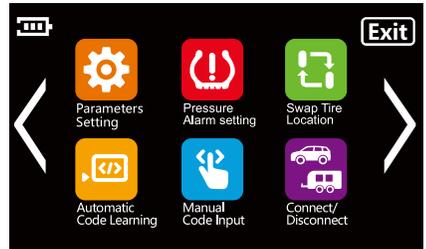
Startup Screen will appear after ~5 seconds, followed by the **Settings Icons Screen** or, if sensor(s) are already programmed, the Power Unit/Trailer **Main Screen** will appear after approximately 5 seconds.

If no sensors are paired to the Display, the **Settings Menu Screen 1** will change to the Power Unit/Trailer **Main Screen** after approximately 1 minute, 30 seconds.

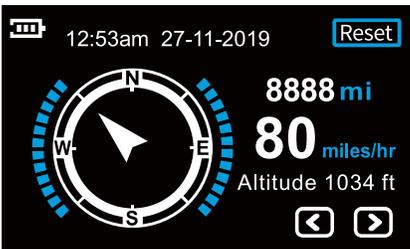
Note: When the display receives the paired sensor information, the corresponding pressure and temperature data will be displayed on the Power Unit/Trailer **Main Screen**.



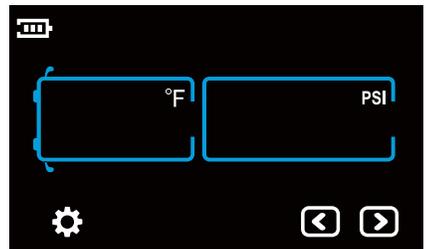
Power Unit/Trailer **Main Screen**
(if sensors already programmed)



Settings Menu Screen 1
(if no sensors are programmed)



GPS Interface Screen (left and right arrows bring up GPS)
(Note: GPS feature may not be available on certain models)



Power Unit/Trailer **Main Screen**
(appears after 1 minute, 30 seconds)

Touch [←] or [→] to switch between Power Unit/Trailer **Main Screen** and **GPS Interface Screen** (this is not a navigation tool). Please allow up to 15 minutes for the GPS to initialize the first time.

6. UNDERSTANDING YOUR TIRE ALERTS

When there is an alert, the tire position will change from yellow to red, will display the corresponding alert with icons, audible alarm will sound (beep) and LED will flash red. When you silence the alert by touching the screen, The alert will not sound again as the unit cycles back to the alert tire. The alert text continues to flash and the tire remains red. LED stays on as long as the alert is active.

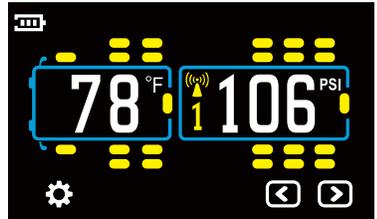
If you leave the alert active it remains on the same alert tire for 10 seconds before resuming the monitoring cycle. Display does not cycle through other tires until you silence the alert. After 10 seconds if alert has not been silenced display will continue to visually cycle through the rest of the programmed tires, keeping the alert tire in red.

Note: During active audible and visual alerts, all other active tires are being monitored.

Power Unit/Trailer Main Screen

Switches to each programmed tire position every 5 seconds.

Displays repeater icon when receiving repeater signal.



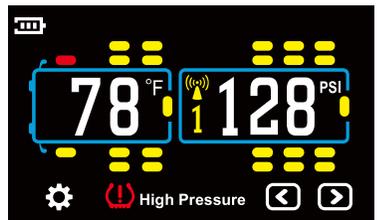
High Pressure Alert

Example: High Pressure threshold is 125 PSI.

Tire position will start flashing red.

High Pressure indicator and icon will flash, once every second.

Audible alert will sound.



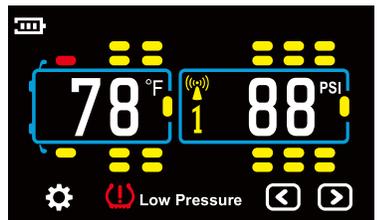
Low Pressure Alert

Example: Low Pressure threshold is 90 PSI.

Tire position will start flashing red.

Low Pressure indicator and icon will flash, once every second.

Audible alert will sound.



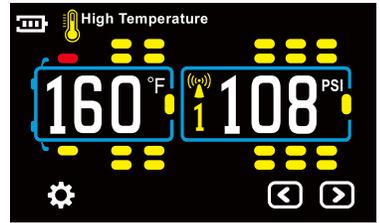
High Temperature Alert

Example: High Temperature threshold is 158°F.

Tire position will start flashing red.

High Temperature indicator and icon will flash, once every second.

Audible alert will sound.



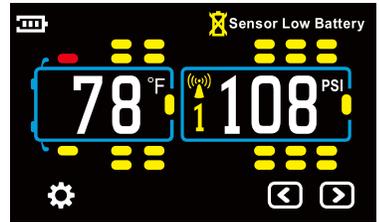
Sensor Low Battery Alert

Example: Sensor Low Battery icon shown.

Tire position will start flashing red.

Sensor Low Battery indicator and icon will flash, once every second.

Audible alert will sound.



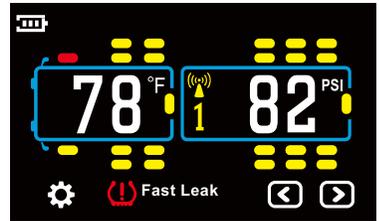
Fast Leak Alert

Example: Loss of 2 PSI or greater in less than one minute.

Tire position will start flashing red.

FAST LEAK indicator and icon will flash, once every second.

Audible alert will sound.

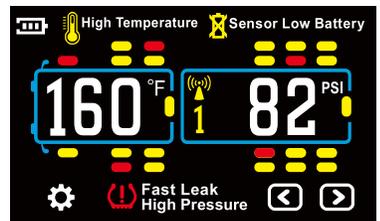


Alerts Multiple Tire Positions

When there is more than one alert at the same time, display will cycle through the multiple alerts.

Touch screen to silence audible alert.

Display will resume cycling through all programmed tire positions. You can manually select any programmed tire position by touching that tire position.



7. OTHER FUNCTIONS

Normal Display Scrolling

The tire icons will automatically scroll through. Each tire position will be displayed for approximately 5 seconds. You can manually cycle through the displayed tires by touching the tire icon on the screen.

Back-lighting and Motion Detection

The display is equipped with a light sensor and a motion sensor. The back-light will turn on when the vehicle is in motion and there is a little ambient light. If the vehicle has been motionless for a while and the display is on the internal battery, the display will “go to sleep” until the vehicle resumes motion.

Display Sleep Mode

When the display detects no motion for 10 minutes, it will enter into sleep mode automatically, the screen turns off until motion is detected.

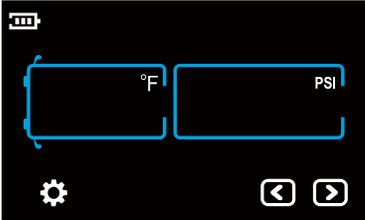
Display Auto-hide

If the display does not receive data from paired sensors, power unit or trailer for 15 consecutive minutes, the display will automatically “hide” those sensors. Sensors will appear when they are in range.

8. PARAMETER SETTINGS

Note: If Display senses no input for 90 seconds, it will exit to **Main Screen** automatically. To adjust Default Settings, touch main screen settings icon  to enter into **Settings Menu Screen 1**. This will be the first step for the remaining sections.

Touch  or  to switch between **Settings Menu Screen 1** or **Settings Menu Screen 2**.

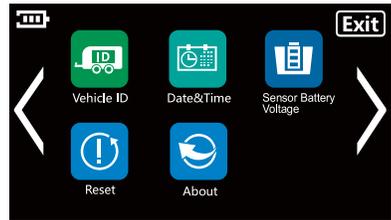


Power Unit/Trailer **Main Screen**



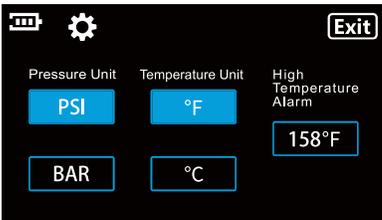
Settings Menu Screen 1

 or 



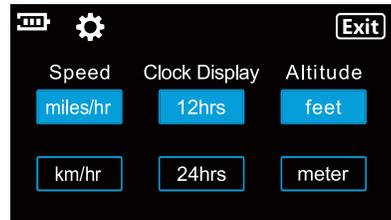
Settings Menu Screen 2

Touch  to enter into Parameters Settings. Touch  or  to switch between **Parameter Settings Screen 1** or **Parameter Settings Screen 2**. Change options by selecting Pressure, Temperature, High Temp Alert, Speed, Clock, Altitude.



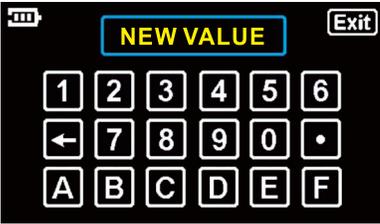
Parameter Settings Screen 1

 or 



Parameter Settings Screen 2

Example: To change High Temperature Alert (default is 158°F) touch the High Temp Alert unit and use the **Keyboard Input Screen** to change setting. Touch **Exit** to return to **Parameters Settings** screen. Touch **Exit** again.



Keyboard Input Screen

To save your input, touch **Exit and Save**. To cancel, touch **Exit without Saving**. Selection returns you to **Main Screen**.

9. COLD TIRE PRESSURE ALERT SETTINGS - POWER UNIT

The following instructions will utilize the **Default** High/Low Pressure Alert thresholds. For **Manual High/Low Pressure Alert** thresholds, go to page 13.

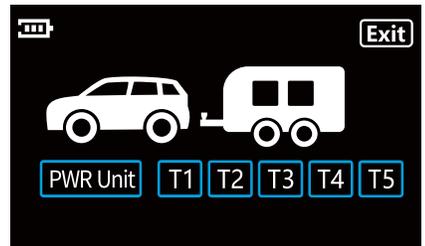
Note: When inputting **Cold Tire Pressure (CTP)** with this option, **High Pressure Alert** will be set at 25% above CTP and **Low Pressure Alert** will automatically be set at 10% below CTP.

To adjust **Cold Tire Pressure** settings, touch  to enter into **Pressure Alert Settings**.

Touch  to enter **Power Unit Cold Pressure** screen.



Settings Menu Screen 1



Power Unit or Trailer Selection Screen



Power Unit Cold Pressure Screen



Keyboard Input Screen

To set **Steer Axle, Both Drive Axles** and **Spare Tire** cold tire pressure, touch 100 PSI to enter the **Keyboard Input Screen**. Enter your preferred Cold Tire Pressure.

Note: If Drive Axles require different pressure settings please refer to Page 13 **Manual Setup**.

Touch Exit to exit **Keyboard Input Screen** after Steer Axle, Drive Axle and Spare Tire cold tire pressure settings are changed. **Power Unit Cold Pressure** screen will appear.



Power Unit Cold Pressure Screen



Exit and Save or Exit Without Saving

Touch Exit again to exit **Power Unit Cold Pressure** screen. To save your input, touch **Exit and Save**. To cancel, touch **Exit without Saving**. Selection returns you to the Power Unit/Trailer **Main Screen**.

10. COLD TIRE PRESSURE ALERT SETTINGS - TRAILERS

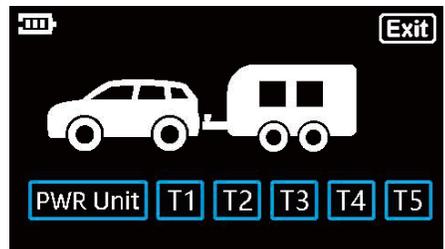
The following instructions will utilize the **Default** High/Low Pressure Alert thresholds. For **Manual** High/Low Pressure Alert thresholds, go to page 13.

Note: When inputting **Cold Tire Pressure** (CTP) with this option, **High Pressure Alert** will be set at 25% above CTP and **Low Pressure Alert** will automatically be set at 10% below CTP.

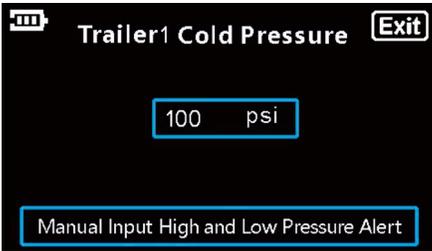
To adjust default **Cold Tire Pressure** settings, touch ⏻ to enter into **Pressure Alert Settings**. Touch T1, T2, T3, T4 or T5 to enter **Trailer Cold Pressure** screen.



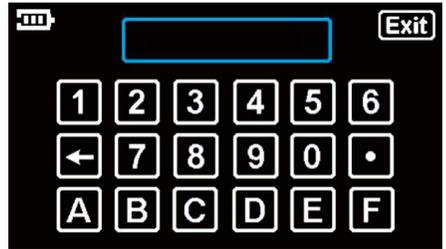
Settings Menu Screen 1



Power Unit or Trailer Selection Screen



Trailer 1 Cold Pressure Screen



Keyboard Input Screen

To set **Trailer Axle** cold tire pressure, touch **100 psi** to enter the **Keyboard Input Screen**. Enter your preferred Cold Tire Pressure.

Touch **Exit** to exit **Keyboard Input Screen** after **Trailer Axle** cold tire pressure settings are changed. **Trailer Axle Cold Pressure** screen will appear.



Trailer Axle Cold Pressure Screen



Exit and Save or Exit Without Saving

Touch **Exit** again to exit **Trailer Axle Cold Pressure** screen. To save your input, touch **Exit and Save**. To cancel, touch **Exit without Saving**. Selection returns you to the Power Unit/Trailer **Main Screen**.

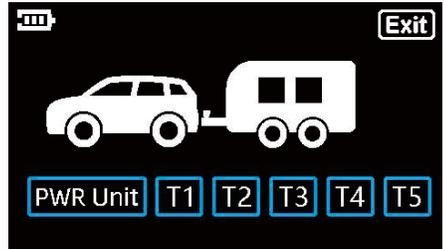
11. MANUAL HIGH/LOW PRESSURE ALERT SETTINGS

Note: **High Pressure Alert** defaults are set at 25% above Cold Tire Pressure setting and **Low Pressure Alert** will be set at 10% below Cold Tire Pressure setting.

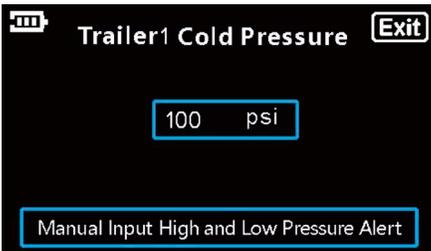
To manually adjust **High and Low Pressure Alert** values, touch  to enter into **Pressure Alert Settings**. Touch **Power Unit**, **T1**, **T2**, **T3**, **T4** or **T5** to enter respective **Cold Pressure** screen. **Example:** Touch **T1**.



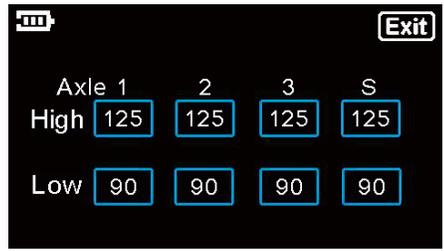
Settings Menu Screen 1



Power Unit or Trailer Selection Screen

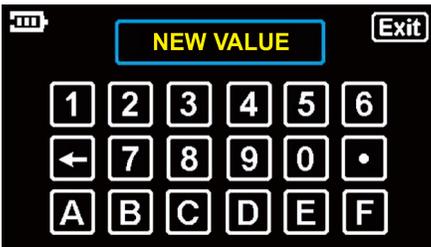


Trailer 1 Cold Pressure Screen (Example)

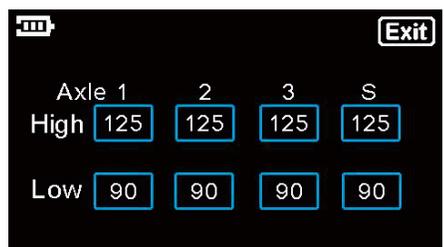


Manual Input High/Low Pressure Alert Value Screen

Touch  to enter the **Manual Input High/Low Pressure Alert Value** screen. **NOTE:** **LOW SETTING MUST BE ADJUSTED PRIOR TO HIGH SETTING.** To change **Pressure Alert Value**, touch the box that corresponds to the axle you would like to change (1, 2, 3 or Spare).



Keyboard Input Screen



Manual Input High/Low Pressure Alert Value Screen

This will bring up the **Keyboard Input Screen**. Enter your preferred **Low Pressure Alert Value**. Touch **Exit** to exit **Keyboard Input Screen** and repeat steps for remaining **Pressure Alert Value** for this axle and then repeat for the remaining axles and spares. Touch **Exit** again to exit **Manual Input High/Low Pressure Alert Value** screen. To save your input, touch **Exit and Save**. To cancel, touch **Exit without Saving**. Selection returns you to the Power Unit/Trailer **Main Screen**.

12. SWAP TIRE LOCATION

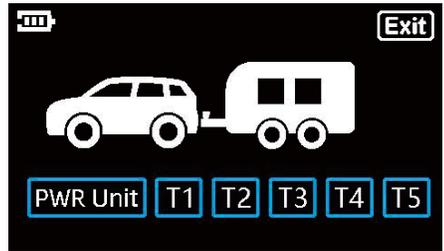
Note: Only tires with paired sensors can be swapped. In the **Swap Tire Location** screen currently programmed tires will show as solid green color.

Touch **⚙️** to enter into **Swap Tire Location** settings.

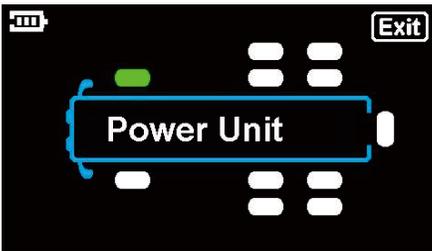
Touch **Power Unit** to enter **Power Unit Tire Position** settings.



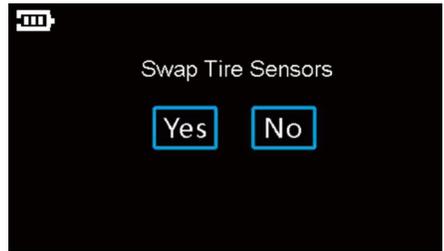
Settings Menu Screen 1



Power Unit or Trailer Selection Screen



Power Unit Swap Tire Sensors Screen



Swap Tire Sensors Screen

Touch **⬜** to select the tire you want to swap (selected tire will flash green). Touch the **⬜** icon for the tire you want to swap to (both tires will flash green). **Swap Tire Sensors** screen will appear.

Touch **Yes** to save selected tire swap and exit to **Main Screen**. Touch **No** to cancel selected tire swap and exit to **Main Screen**.

Swap Tire Location for Trailers

Touch **⚙️** to enter into **Swap Tire Location** settings.

Touch **T1**, **T2**, **T3**, **T4** or **T5** on the **Swap Tire Sensors** screen to swap trailer tire location, and repeat power unit steps above.

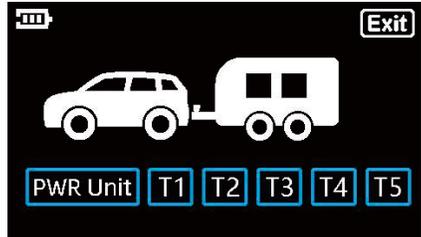
13. AUTOMATIC CODE LEARNING

Touch  to enter into **Automatic Code Learning** settings.

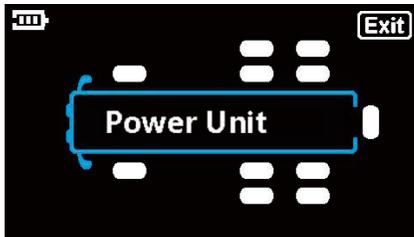
Touch **Power Unit** to enter **Sensor Code Learning** settings for power unit.



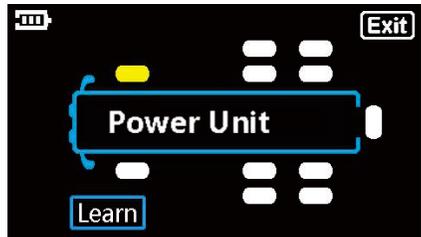
Settings Menu Screen 1



Power Unit or Trailer Selection Screen

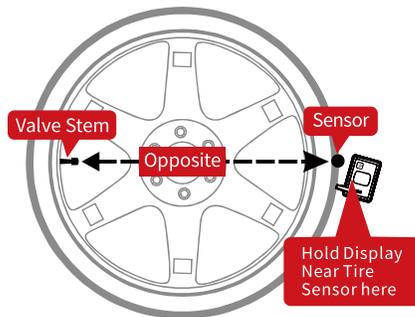
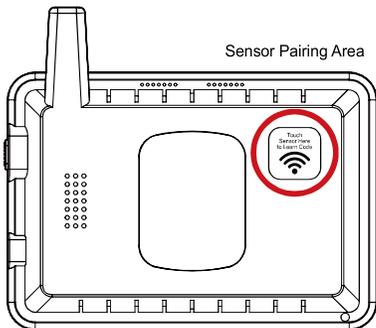


Power Unit Tire Position Screen



Power Unit Tire Position Screen

Touch  to select the tire you want to code to the sensor. Selected tire will flash white and yellow and the **Learn** icon will appear on the screen.



Internal Sensor Position is opposite of Valve Stem

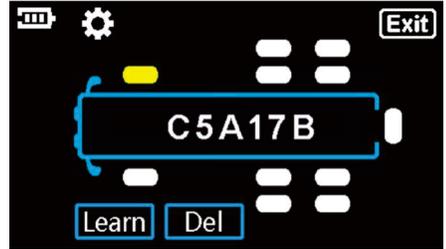
Touch **Learn** icon. Icon will change to . Touch a sensor to the **Sensor Pairing Area** on back of the display (see image above) to learn sensor ID code.

Note: For internal sensor hold the **Sensor Pairing Area** to the tire, at the sensor location, which is located 180° from the valve stem (see image above).

14. AUTOMATIC CODE LEARNING (cont.)

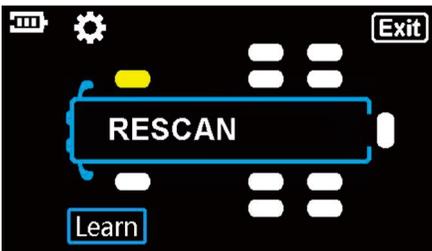


Sensor Code Capture Screen



Power Unit Sensor Code Learning Screen

If sensor code learning is successful, sensor ID code (Example: C5A17B) will appear on **Sensor Code Capture** screen with options to **Exit and Save**.

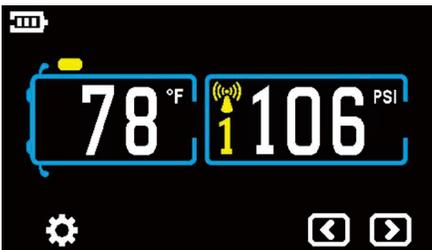


Power Unit Sensor Code Learning Screen

Note: If sensor code learning is unsuccessful, **RESCAN** will appear on **Sensor Code Learning** screen (after ~10 seconds).

Touch **Learn** icon to attempt to learn sensor code again. Repeat above steps until sensor is coded.

After successful code learning, touch **Exit and Save** to return to sensor code learning screen. The programmed tire position will blink yellow and sensor code will show (Example: C5A17B) in power unit on **Sensor Code Learning** screen.



Power Unit/Trailer Main Screen (after 1st sensor learning)

Note: If the Cold Tire Pressure (CTP) has not yet been set, the tire positions will flash red and alerts will sound. Tap the screen to silence, touch main screen settings icon  to get to the main screen and follow **Cold Tire Pressure Alert** settings instructions on pages 11-12.

Repeat for remaining tire positions.

Touch **Exit** to finish and return to **Main Screen**. Learned code tire positions will blink yellow and will show pressure and temperature readings.

Automatic Code Learning for Trailers

Touch **Learn** to enter into **Automatic Code Learning** settings.

Touch **T1**, **T2**, **T3**, **T4** or **T5** to enter **Sensor Code Learning** settings for respective trailers and repeat previous power unit steps.

15. CONNECT/DISCONNECT

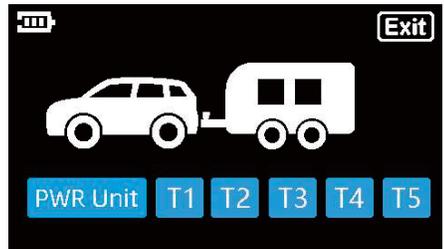
Note: This example shows Trailer Units. All connected units will show as blue icons with white text.

Touch **Connect/Disconnect** to enter into **Connect/Disconnect Tire** settings.

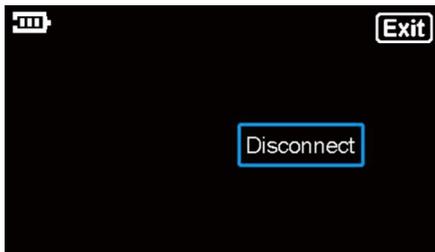
Touch **T1**, **T2**, **T3**, **T4** or **T5** on the **Connect/Disconnect Tire** screen.



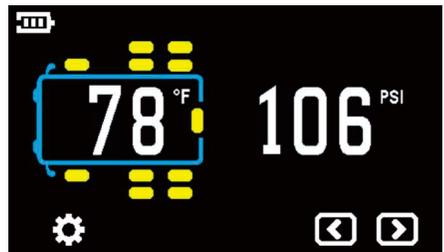
Settings Menu Screen 1



Power Unit or Trailer Connect/Disconnect Screen



Power Unit/Trailer Unit Disconnect Screen



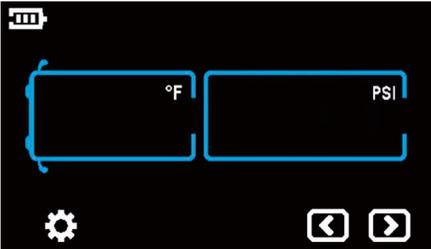
Power Unit/Trailer Main Screen

Touch **Disconnect** to disconnect the trailer selected. then select **Exit and Save**. **Main Screen** will now show the unit disconnected.

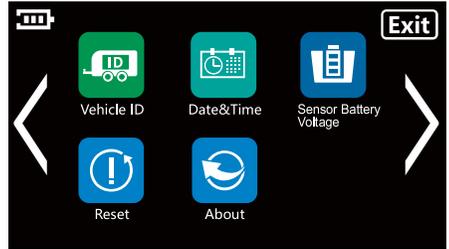
16. CUSTOM VEHICLE ID

Note: If Display senses no input for 90 seconds, it will exit to **Main Screen** automatically.

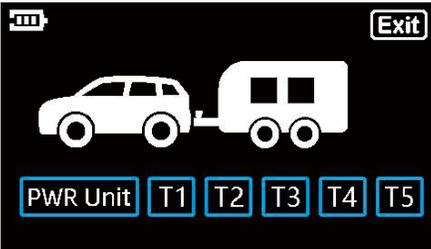
To adjust Default Settings, touch main screen settings icon  to enter into **Settings Menu Screen 1**. Touch  to switch to **Settings Menu Screen 2**. This will be the first step for the remaining sections.



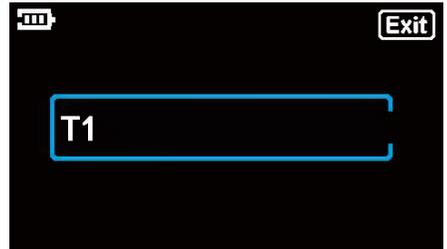
Power Unit/Trailer Main Screen



Settings Menu Screen 2



Power Unit or Trailer Selection Screen



Trailer 1 Vehicle ID Screen

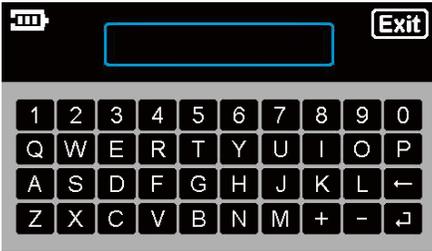
Touch  to enter into **Vehicle ID** settings.

Note: This example shows Trailer 1.

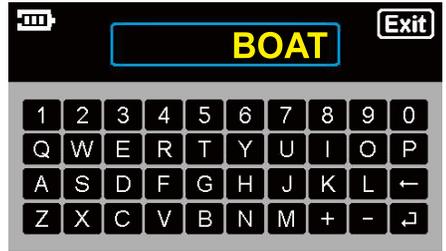
Touch , , ,  or  to enter **Vehicle ID** settings for respective trailer.

Touch  to enter **Full Keyboard Input** screen

17. CUSTOM VEHICLE ID (cont.)



Full Keyboard Input Screen



Full Keyboard Input Screen

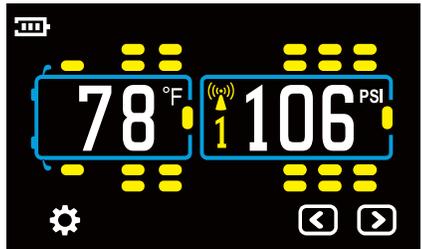
Enter new name for Trailer 1. **Example:** "BOAT".

Touch  to delete character.

Touch  or  to exit **Full Keyboard Input** screen after vehicle ID settings are changed.



Exit and Save or Exit Without Saving Screen



Power Unit/Trailer Main Screen

To save your input, touch **Exit and Save**. To cancel, touch **Exit without Saving**.

Selection returns you to the Power Unit/Trailer **Main Screen**.

Custom Vehicle ID's for Remaining Trailers and Power Unit.

Touch  to enter into **Vehicle ID** settings.

Touch , , ,  or  to enter **Vehicle ID** settings for remaining trailers or power unit and repeat previous steps to change Vehicle ID.

18. DATE & TIME SETTINGS

Note: Default Time Zone is set to CST(UTC-06:00).



Settings Menu Screen 1



Time Zone	Standard Time	Daylight Saving Time
Atlantic Time Zone	AST(UTC-04:00)	ADT(UTC-03:00)
Eastern Time Zone	EST(UTC-05:00)	EDT(UTC-04:00)
Central Time Zone	CST(UTC-06:00)	CDT(UTC-05:00)
Mountain Time Zone	MST(UTC-07:00)	MDT(UTC-06:00)
Pacific Time Zone	PST(UTC-08:00)	PDT(UTC-07:00)
Alaska Time Zone	AKST(UTC-09:00)	AKDT(UTC-08:00)
Hawaii Time Zone	HST(UTC-10:00)	HDT(UTC-09:00)

Power Unit or Trailer Selection Screen



Exit and Save or Exit Without Saving Screen

To change your preferred **Time Zone**, touch  to enter into **Date & Time** settings. Touch the preferred **Time Zone** in the available menu.

Touch  to exit **Time Zone** screen. To save your input, touch **Exit and Save**. To cancel, touch **Exit without Saving**. Selection returns you to the Power Unit/Trailer **Main Screen**.

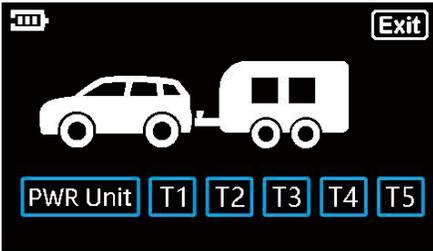
Note: GPS automatically sets Date and Time. No further adjustment is necessary. Please allow up to 5 minutes for the unit to capture satellites and begin to report.

Note: GPS feature may not be available on certain models.

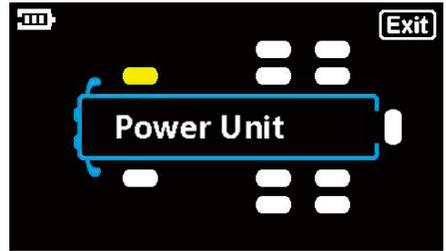
19. SENSOR BATTERY VOLTAGE



Settings Menu Screen 2



Power Unit or Trailer Selection Screen

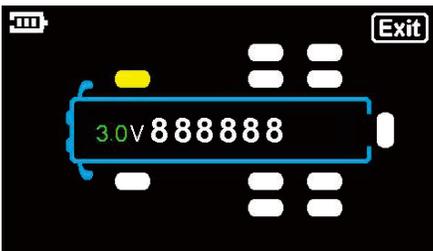


Power Unit Tire Position Screen

Touch to check into **Sensor Battery Voltage**.

Touch **T1**, **T2**, **T3**, **T4**, **T5** or **Power Unit** to view **Sensor Battery Voltage** readings for respective trailers or power unit.

Touch any icon to check the sensor voltage.



Power Unit Tire Position Screen

Sensor Battery Voltage Number Key

A numeric voltage value will be displayed in one of 3 colors:

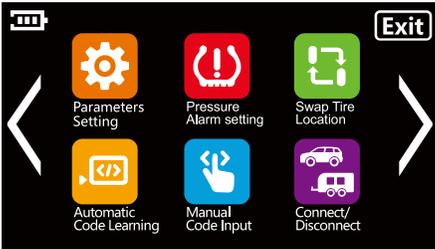
	Battery in Good Condition
	Battery is Marginal
	Replace Battery or Internal Sensor

Sensor Battery Voltage will be shown, along with selected tire position and sensor and ID code.

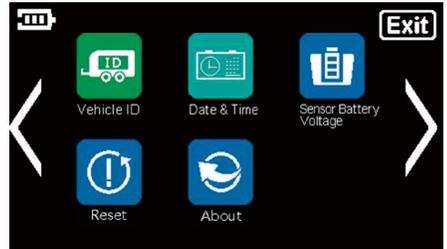
Touch to return to the Power Unit/Trailer **Main Screen**.

20. RESET

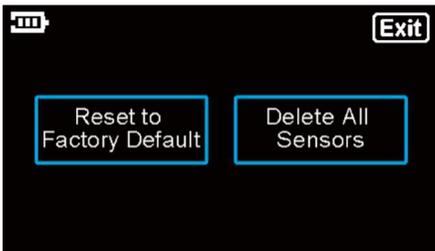
To Reset System to Factory Defaults:



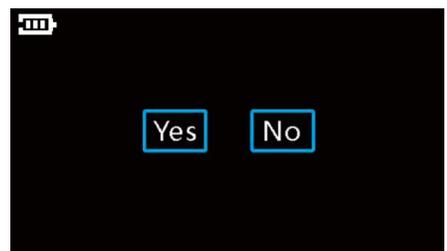
Settings Menu Screen 1



Settings Menu Screen 2



Power Unit or Trailer Selection Screen



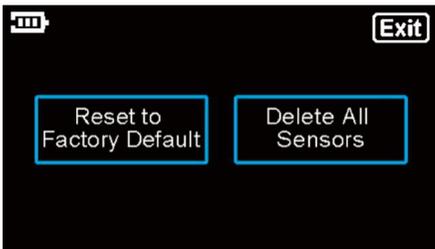
Yes or No Selection Screen

To reset the system to factory default settings, touch to enter into **Reset** screen.

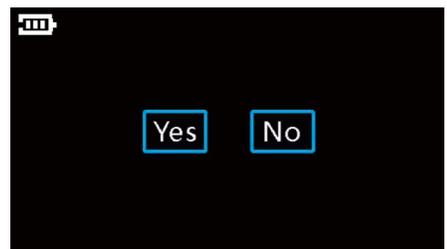
Touch to **Reset To Factory Default**. Touch to reset to factory default settings.

Touch to exit without changes. Both options will return to **Main Screen**.

To Delete All Sensors (and retain any user-modified parameter settings):



Power Unit or Trailer Selection Screen



Yes or No Selection Screen

To **Delete All Sensors**, touch to enter into **Reset** screen.

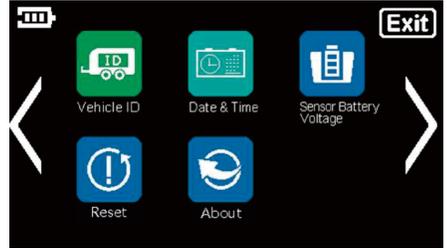
Touch to **Delete All Sensors**. Touch to delete all programmed sensors.

Touch to exit without changes. Both options will return to **Main Screen**.

21. ABOUT



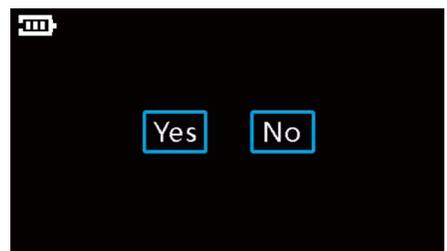
Settings Menu Screen 1



Settings Menu Screen 2



Power Unit or Trailer Selection Screen



Yes or No Selection Screen

To review system information, touch  to enter into **About** screen. About menu will display current Hardware and Software Version Information. Touch  to return to the Power Unit/Trailer **Main Screen**.

22. DISPLAY SPECIFICATIONS

Temperature Operating Range	-4°F - 176°F / -20°C - 80°C -22°F -
Storage Temperature Range	185°F / -30°C - 85°C
Display Input Voltage	5 to 24V DC
Frequency	433.92 MHz
Size	5.28"(L) x 4.59"(W) x 0.83"(D) 134(L) x 116.5(W) x 21(D)mm
Display Weight	8.35 oz. / 236.5 grams