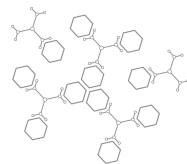




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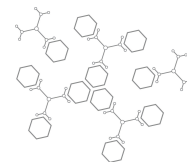
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**iN·Command®**  
CONTROL SYSTEMS

**NCTP100**

Tire Pressure Monitoring System  
Installation and Operation Manual (English)



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## Important Safety Information



### **WARNING**

Read these warning and instructions carefully before using this product\*. Failure to follow these instructions in this owner's manual, or improper use of the Mobile Application, could result in personal injury, including death.

Complete Tire Pressure Monitoring System (TPMS) App set-up before driving. The driver does not need to constantly view the TPMS App. Warning notifications will be issued when abnormal conditions are found in the tires.

TPMS sensors only transmits data when the sensor is on a vehicle that is going over 20 miles per hour.

The smart device with app installed needs to have Bluetooth turned on and the TPMS App needs to be running the background in order to receive on-screen and audible warning notifications when device volume is turned on.

The smart device should be in a viewing area that does not affect normal driving.

It is recommended to check for any air leakage from the tires after the TPMS sensors have been installed.

This iN-Command TPMS does not have a warning notification for side wall failure. However, the warning notifications for irregular tire pressure and temperature may help prevent a failure.

It is still necessary to perform regular maintenance and visual inspections of your tires.

This mobile application is intended for adult use only.

\*Information in this manual is subject to change without notice.

## • INTRODUCTION

Thank you for choosing iN-Command TPMS. We hope you will find the instructions in this owner's manual clear and easy to follow. If you take a few minutes to look through it, you'll learn how to use all the features of your new NCTP100 for the best safety results.

With this new product: Bluetooth Low Energy Tire Pressure Monitoring System (hereinafter referred to as BLE TPMS), you can get accurate tire pressure and temperature at any time through your smart phone via the iN-Command TPMS App. When the system detects abnormal status, it will alert you, and show the abnormal data and tire location on the Bluetooth TPMS App (hereinafter referred to as App).

## • Packaging Contents

1. Lock Nut\* (4)
2. Anti-Theft Attachment (4)
3. Tire Sensor (4)
4. Battery (4) CR1632
5. Wrench\*\* (1)
6. Bluetooth Repeater (1)



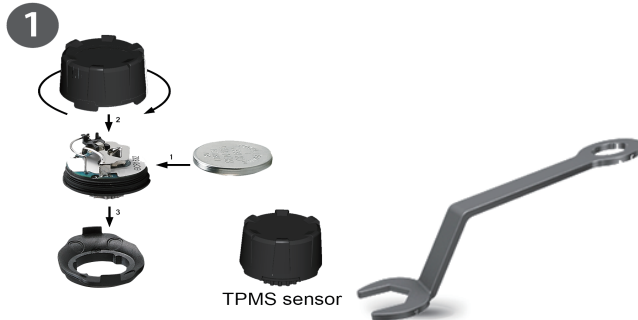
**\*The Lock Nuts are used with the Anti-Theft Attachment to prevent the sensor from being removed from the tire stem.**

**\*\*The wrench is used to tighten or loosen the lock nuts and can be used to remove the cover from the sensor. It is recommended to keep the wrench in the vehicle in case you need to remove the sensor or replace the battery.**

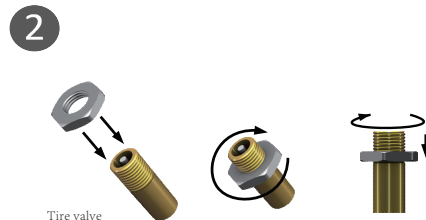


## • INSTALLATION

Use the included wrench to remove the cover from the TPMS sensor. Install the battery with the positive terminal facing upward then reinstall cover. Attach anti-theft attachment to bottom of sensor.



Screw Locking nut onto tire valve. \*



\*This product is recommended with a metal valve, or to replace the original valve regularly to ensure better quality.

Screw TPMS sensor onto tire valve, using included wrench to tighten onto locking nut.

3



After installation, please download the App and proceed with all settings.

## • Bluetooth Repeater Installation

**Black Wire(-):** Connected ground wire

**Red Wire (+):** Connected 12V/24V



The Bluetooth Repeater is weather-resistant and can be mounted outside.

We recommend connecting the repeater to a switched power source, like the running lights. This will allow you to turn the repeater on/off with the running lights. If the repeater is connected to constant battery power, the repeater will stay on at all times and will draw on the battery.

It is recommended to install the repeater for large travel and 5<sup>th</sup> wheel trailers. It is optional for motorhomes.



When installing the repeater, have the side labeled "Front" pointed towards the vehicle. The "Front" side transmits the signal towards the app and "Rear" side receives the signal from the sensors.

## • SPECIFICATIONS

### **BLE TPMS SENSOR**

Operating Voltage	3V
Operating Humidity	95 % MAX
Operating Current	< 15 mA at DC 3V
Storage Temperature	-40 °F to 185 °F
Operating Temperature	-4 °F to 185 °F
Monitored Pressure Range	0 to 184 psi
Monitored Temperature Range	-4 °F to 185 °F
Operating Frequency	2.4GHz
Transmission Power	4 dBm MAX
Battery Life	1 year (under normal operating condition)
Battery Capacity	130 mAh (CR1632)
Weight	10 g ± 0.5 g (including battery)

### **REPEATER SENSOR**

Operating Voltage	12V/24V
Operating Humidity	90 % MAX
Storage Temperature	-40 °F to 257 °F
Operating Temperature	-4 °F to 185 °F
Operating Frequency	Bluetooth Low Energy 4.0, 2400MHz~2483.5MHz
Transmission Power	4 dBm MAX
Receiver Sensitivity	< -85dBm
Modulation format	GFSK
Operating Current	40mA Max. @ DC 12V

## • NOTES

Consult your vehicle manual or a tire professional to determine the proper tire pressure for your vehicle. It is recommended to set the tire pressure when the ambient temperature is cool or low and before the vehicle has been driven.

Dramatic changes in tire pressure can occur from the following: change in ambient temperature, wheel and axle loads, and exposure to the sun. These and other conditions should be taken into consideration when setting initial tire operating pressures.

If the TPMS sensor is low on battery, or other abnormal conditions exist, the TPMS sensors will continuously emit signals to warn the driver as long as those conditions are present. This will cause the battery to have a shorter life span. Contact a tire specialist or service station to confirm whether the battery needs to be replaced, TPMS sensor needs to be replaced, or if there is an issue with the tire.

Make sure the tire stem and Schrader Valve (core inside the valve stem) are in good condition. The Schrader Valve should be the correct size and able to be depressed fully to allow the release of air to the sensor for proper operation. Also, keep these same considerations in mind when using valve stem extensions. Metal bodied stems or T-Valve type are recommended for best performance. We recommend contacting a tire professional to ensure that the tire stem and Schrader Valve are installed and operating correctly.

Temporary resealing or re-inflation with product injected through the valve hole may adversely affect the operation of the sensor. Furthermore, do not place the TPMS sensor in contact with tire sealant, balancing compounds or any other chemicals. This can cause damage to the sensor and prevent it from functioning properly.

This system operates on a Bluetooth Low Energy system. As with any wireless systems, this system can occasionally suffer from interference depending on the distance between the sensors and your smart device, thus causing the system to be inaccurate or not operate at all.

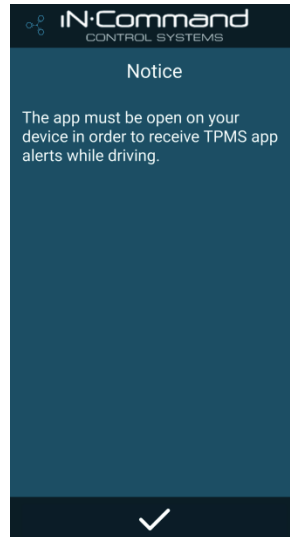
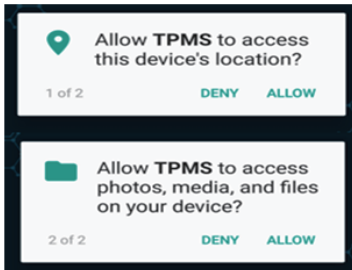
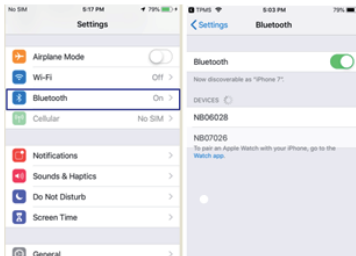
Do not solely rely on the iN-Command TPMS for safety! Continue to check the condition and pressure of your vehicles tires on a regular basis as described by the manufacturer of the vehicle or tire manufacturer. Tire pressures and temperatures are not the only things that can affect tire safety; we suggest daily visual inspections and periodic checks by tire professionals.

- **MOBILE DEVICES**


iN-Command TPMS is able to pair to Android and iOS devices using the iN-Command TPMS App. Visit the Google Play and Apple App stores on your mobile device to download and use the iN-Command TPMS App. (Note: The images shown may not match your specific device.)

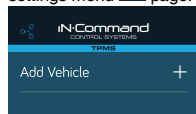
- **Pairing a Mobile Device**

1. Enable "Bluetooth" in the system settings of the mobile device.
2. When opening the app for the first time, 2 prompts will appear. If either of these prompts are denied, some of the app features will not function.
3. After the initial prompts, a Notice will appear.

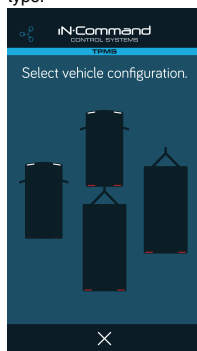


## • Create New Vehicle Profiles

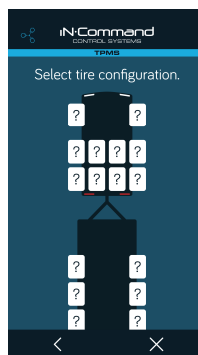
1. Press the "+" button in the settings menu  page.



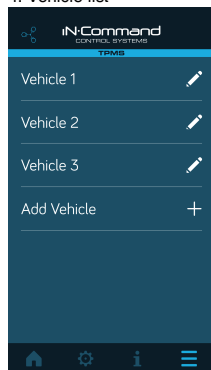
2. Select vehicle configuration and type.



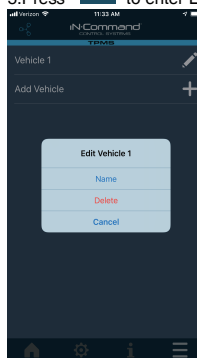
3. Select the tire configuration.



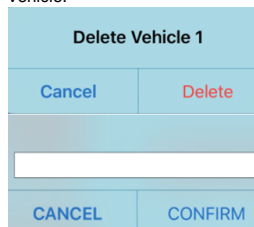
4. Vehicle list




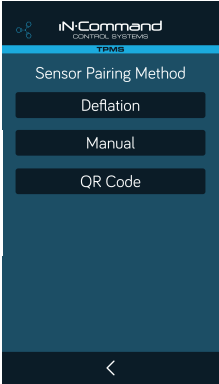
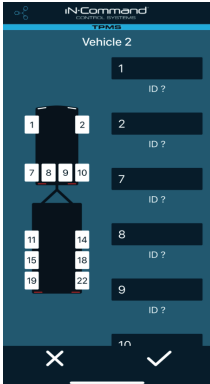
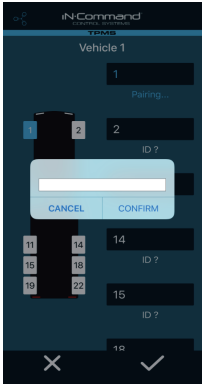
5. Press "" to enter Edit



6. From Edit, you can "Delete" a vehicle or edit the "Name" of a vehicle.



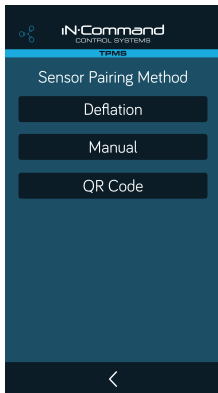
- **Sensor Pairing**
- **Tire Deflation Sensor Pairing**

<p>1. Press , then select "Sensor Pairing" - &gt;<b>Deflation</b>.</p> 	<p>2. Select tire location #.</p> <p>3. Install sensor on the valve stem of the associated tire, being careful not to over tighten.</p> 	<p>4. App will search for deflation signal and display sensor's ID number.</p> 
<p>Repeat step 1-3 for any remaining tires with sensors.</p> <p>Note: Sensor will transmit learning signal for 10 minutes after sensor's battery is installed. If additional time is required, remove and reinstall battery to restart learning signal.</p>		

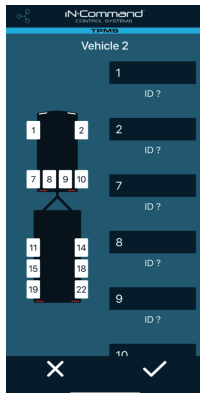


- Manual Sensor Pairing

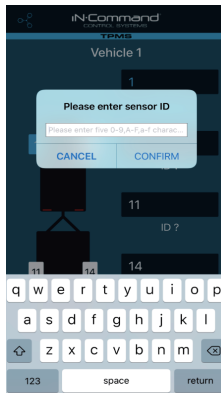
1. Press , then select "Sensor Pairing" -> **Manual**.



2. Select tire location #.



3. Enter selected tire's sensor ID number.

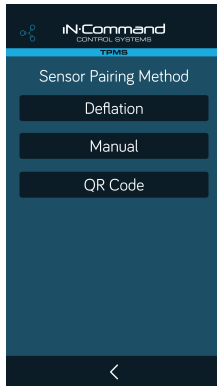


Repeat steps 1-2 for any remaining tires with sensors.

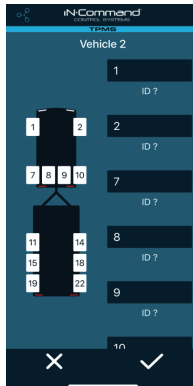
Note: Sensor will transmit learning signal for 10 minutes after sensor's battery is installed. If additional time is required, remove and reinstall battery to restart learning signal.

• QR Code Sensor Pairing

1. Press , then select "Sensor Pairing" -> **QR Code**.



2. Select tire location #.  
3. Device camera will launch.



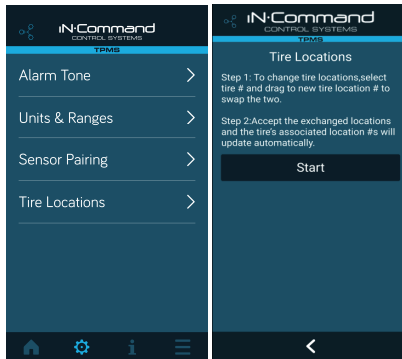
3. Position sensor's QR Code within camera's guidelines until QR Code is automatically captured.



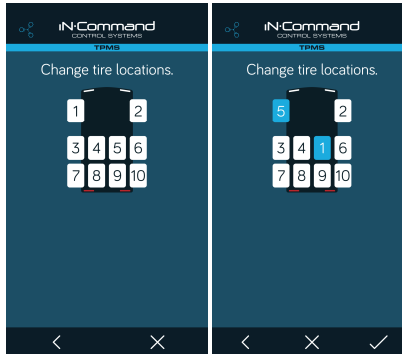
Repeat step 1-3 for any remaining tires with sensors.

## Tire Locations Settings

1. Select tire location # and drag to desired location # to exchange the two tires/sensors.



2. Accept the exchanged locations and the tire's associated location #s will update automatically.



## • Information

The Information page describes the definition of "iN-Command TPMS" and provides contact information for ASA Electronics. You can press the link to go to the company's website.







## • System Warnings

System Warnings :

Defines the pressure, temperature and alarm warning. When abnormal tire system status occurs, the value of the corresponding tire turns red, and it alarms with a sound and warning symbol.

The warning symbols on each tire display, from top to bottom, are: tire pressure warning, tire temperature warning, low battery power of sensor and no signal.

1.  Warning of high tire pressure or low tire pressure  
Tire pressure is higher than maximum tire pressure value or lower than minimum tire pressure value on the APP.
2.  Warning of high tire temperature  
Tire temperature is higher than maximum temperature value on the APP.
3.  Low battery power warning of TPMS sensor  
Battery power of TPMS sensor is low.
4.  Normal signal  
No signal  
Red symbolizes that the app has not received any signal from the tire sensor.

## • RETAIL 12 MONTH LIMITED WARRANTY

ASA Electronics (ASA) warrants to the original retail purchaser of this iN-Command product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced (at ASA's option) without charge for parts and repair labor.

This warranty does not extend to the effects of this device on other devices, to costs incurred for removal or reinstallation of the product, or to damage of any product, accessories, or electrical system(s). This warranty does not apply to any product or part thereof which, in the opinion of the company, has been damaged through alteration, improper installation, mishandling, misuse, neglect, or accident.

THE EXTENT OF ASA'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE, AND, IN NO EVENT, SHALL ASA'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY THE PURCHASER FOR THE PRODUCT.

### **Disclaimer:**

This product is only to be used as a precautionary warning and to provide user as convenient secondary safety equipment. Please follow the standard installation procedures or ask a qualified tire shop to install the product. If the tire has been damaged or a traffic accident resulting from improper driving behavior occurs, the company will not be responsible for any civil or criminal liabilities.

## • TROUBLESHOOTING

After inputting the sensor ID number into the APP, the dialogue display remains without a value.

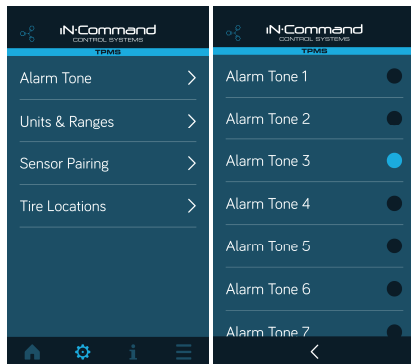
- TPMS sensor only transmits data when the sensor is on a vehicle that is going over 20 miles per hour, the tire pressure changes 5 PSI, or when the battery is installed.
- During other times, data will not be transmitted in order to save power. You can check if the TPMS sensor is working normally through tire pressure increase or deflation.

Smart phone has completed the installation of the APP, the sensor ID settings are done, and the car is being driven, but no data is shown.

- Check if Bluetooth was turned off and restart the app.
- If you experience an intermittent signal, close all other apps. (Wireless audio streaming via Bluetooth may cause interruptions in signal.)

## • Alert & Units & Ranges Settings

1. Select Alarm Tone.



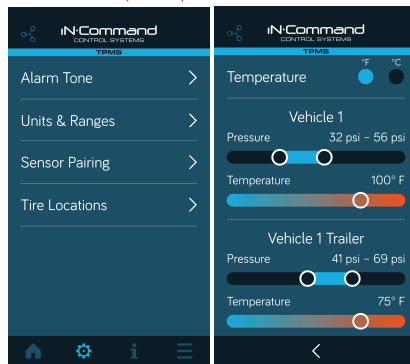
2. Select units & Ranges

°C 、 °F temperature unit and pressure upper and lower limits.

Pressure Range: 0-217 psi; Default 100-150 psi

Temperature Range: 100°F-257(38°C-125°C);

Default: 211°F (100°C)



There is no alarm sound warning for abnormality of tires.

- Check if the device is in silent mode or if the volume has been turned to lowest setting.
- Certain models of iPhone will not give audio alerts if connected to multiple Bluetooth devices simultaneously.

For additional troubleshooting, call ASA Electronics Technical Support at 1-800-688-3135, email [inquiry@asaelectronics.com](mailto:inquiry@asaelectronics.com) or visit our website <https://in-command.net/tpms/>