

TPMS

External Tire Pressure Monitoring System

Light Truck/LSUV/Sedan



ADST002-R/ADST001-T

Description

TPMS is composed of one receiver and 4 transmitters. Receiver receives information from transmitters and update status to user. Transmitters integrated with sensors measure tire pressure, temperature, and so on in real-time. Transmitters also transfer the information through the 434MHz ISM band to the receiver

Feature

- 433.92 MHz ISM band wireless communication.
- Real-Time pressure and temperature measurement.
- Real-Time update in the Receiver.
- Abnormal alarm to users.
- Voice reminder as well as LED indicators.
- Fully integrated car charger power I/F

Safety Precautions

Please follow the safety precautions carefully before you use the product. Make sure that you use the product correctly according to the procedures described in the guide.

1. Never place the product close to equipment generating strong electromagnetic fields.
* Exposure to strong magnetic fields may cause malfunctions.
2. Never plug or unplug the product if your hands are wet, otherwise it will may cause electrical shock.
3. Do not drop the product to the ground to avoid malfunction.
4. Do not attempt to disassemble or alter any part of the product that is not described in this guide.
5. Do not put heavy material on the product.
6. Do not use the product in a wet location.
* In the event that water or other liquids enter the interior, immediately unplug the product from the computer.
7. Do not place the product near a heat source or expose them to direct flame or heat.
8. Do not place the product in damp or dusty places.

Specification

Transmitter

| | |
|-----------------------|-------------------|
| Operating Temperature | -30°C ~ +85°C |
| Storage Temperature | -30°C ~ +85°C |
| Humidity | 95% |
| Carrier Frequency | 433.92 MHz |
| Pressure Range | 100 ~ 900 Kpa |
| Temperature Range | -30°C ~ +125°C |
| Temperature Accuracy | 3°C |
| Sampling Rate | 4 s |
| Data Transfer Rate | 30 s |
| Power | 3.0 V Lithium |
| Power Consumption | Max 13.5mA |
| Battery Life | 1.5 years |
| Weight | 14 g |
| Dimension | 22.5x22.5x25 (mm) |

Receiver

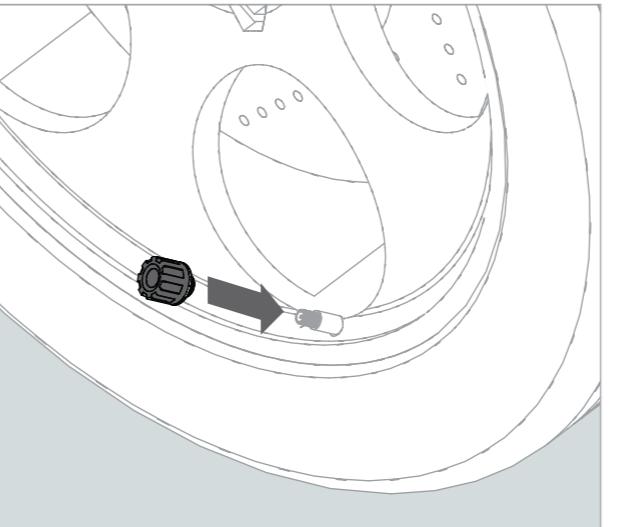
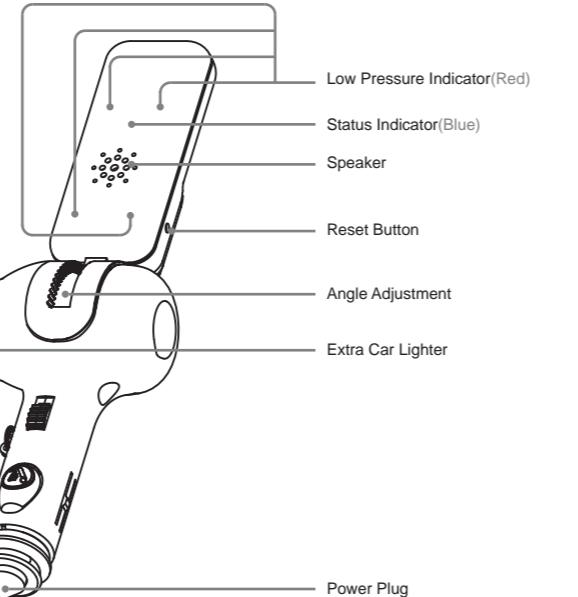
| | |
|------------------------|--|
| LED Pressure Indicator | Red - Low Pressure Indicator |
| LED Status Indicator | Blue - RX Indicator |
| Speech I/F | Preload Choices for Pressure Information |
| Centric Frequency | 433.92 MHz |
| Storage Temperature | -30°C ~ +85°C |
| Operating Temperature | -30°C ~ +85°C |
| Power | 12V DC |
| Dimension | 74x30x22 (mm) |

Package List

1. Receiver x 1
2. Transmitter x 4
3. User manual x 1

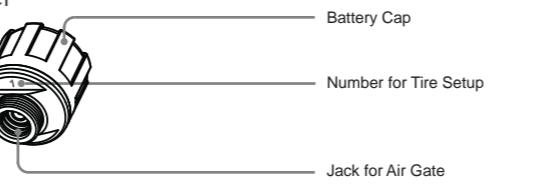
Product Overview

Receiver



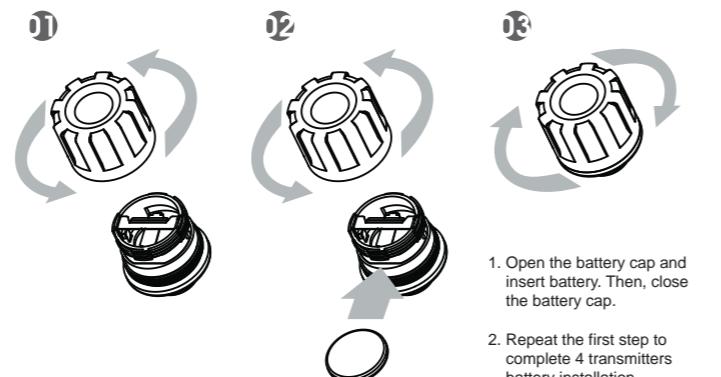
Install transmitters by
1: Front-Left tire.
2: Front-Right tire.
3: Rear-Left tire.
4: Rear-Right tire.

Transmitter

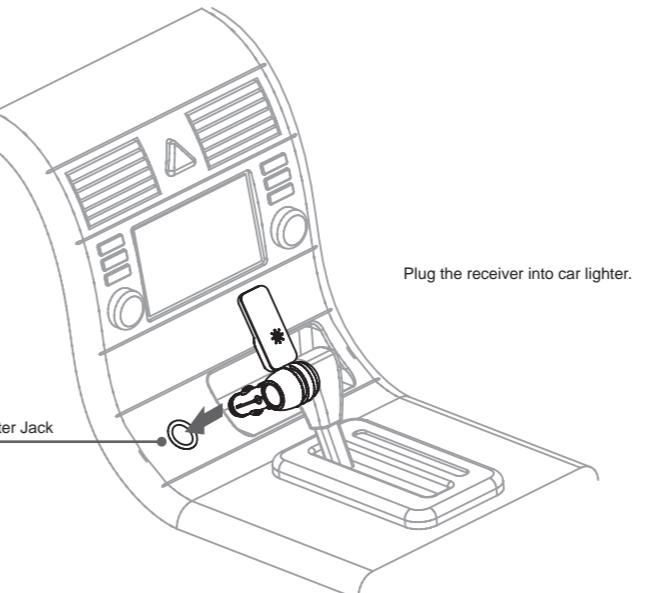


Getting Started

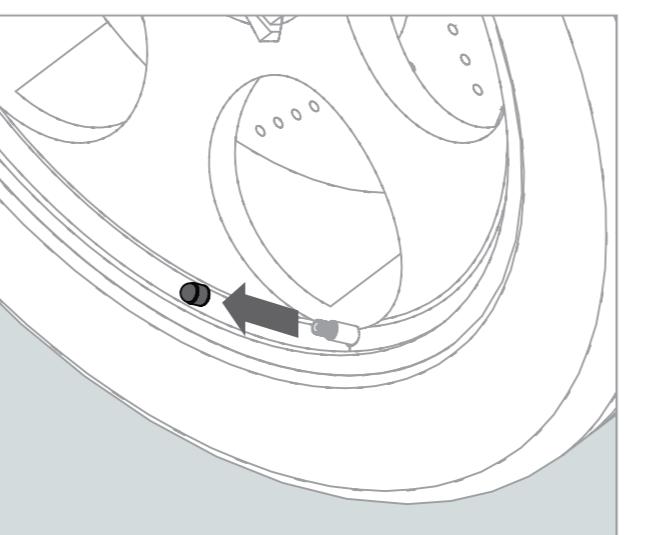
Transmitter Setup



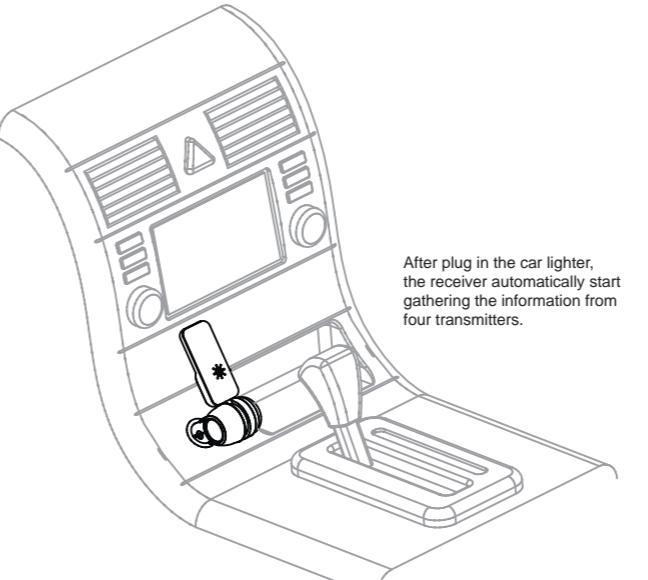
Receiver



Plug the receiver into car lighter.



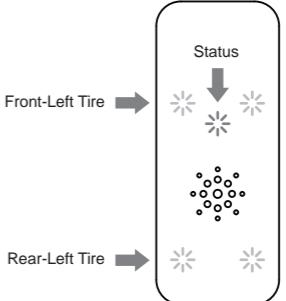
Remove valve cap of tire



After plug in the car lighter, the receiver automatically start gathering the information from four transmitters.

First Time Usage

1. Please follow the step of transmitter setup to install 4 transmitter batteries. While installation is completed, please keep transmitters close to the receiver.
2. Please follow the step of receiver setup to power on Receiver.
3. After powering on the receiver and 4 transmitters, the receiver will automatically search 4 transmitters. (Each transmitter is given a unique ID.)
4. If transmitter is searched, the corresponding LEDs will be turned on.
5. While 4 transmitters are recognized, the receiver will turn on all LEDs, including 4 RED LED for each transmitter alarm as well as 1 BLUE LED for receiving indication.



| Indication on Receiver | Description |
|------------------------|-------------|
| FL | Front-Left |
| FR | Front-Right |
| RL | Rear-Left |
| RR | Rear-Right |

6. Install transmitters to each tire by following the step of transmitter setup. Then, remove the receiver from car lighter hole and re-plug in the receiver to the car lighter hole to reset the receiver.

TPMS Usage

Transmitter

1. Please follow the step of transmitter setup to install the four transmitters on the tire.
2. No need to remove the transmitters if there is no abrupt situation.

Power On Receiver

1. Power on the receiver by the step of transmitter setup. Then 4 RED LED will be blinking for a while.
2. While the 4 RED LED is turned off, the receiver starts to receive the real-time information from transmitters.
3. If there is any received information from transmitters, then the BLUE LED of the receiver is blinking.

Normal Situation

- Light Truck/LSUV - The normal situation means the tire pressure is greater than **54 PSI**.
- Sedan - The normal situation means the tire pressure is greater than **30 PSI**.

Abnormal Situation

- Light Truck/LSUV - The abnormal situation means the tire pressure is less than **48 PSI**. And, RED LED on the receiver will be turned on. Meanwhile, the receiver will speak out the tire position as well as its pressure.
- Sedan - The abnormal situation means the tire pressure is less than **26 PSI**. And, RED LED on the receiver will be turned on. Meanwhile, the receiver will speak out the tire position as well as its pressure.
- Light Truck/LSUV - If tire pressure is between **54 ~ 48 PSI**, RED LED is blinking.
- Sedan - If tire pressure is between **30 ~ 26 PSI**, RED LED is blinking.

Note: Please take off the battery while transmitter is removed from tire. Or, the transmitter would keep consuming the power from battery.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.