Introduction

TPMS T501 is new product designed and produced by V-checker technology.

Adopting Infineon solution, our TPMS device mainly consists of 4 tire sensors modules and a 4" LCD color screen monitoring the vehicle status and showing all related information such as tire pressure & temperature in real time.

Also a L-capacity rechargeable battery is inserted inside the host (or we say the main device) and a high-efficient solar panel is equipped as well. And the integrated circuit board built-in is designed for low power consumption. With all 3 delicate elements above, the endurance of the device is up to 45 days, which offers profound assistance for long road trips.
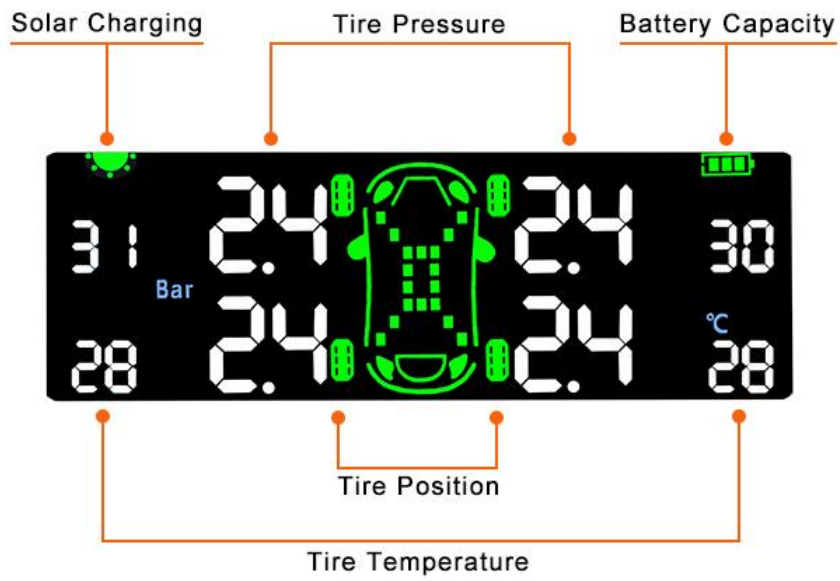
What's more the TPMS can be connected with your intelligent mobile phone via our self-developed Android and iOS Apps available in Google Play and App Store.

Specification

Package characteristics	
Dimensions(D x W x H)	255mm x 130mm x 79mm
Weight	0.40Kg
Host characteristics	
Operating Frequency	433.92MHZ
Operating Voltage	3.5 - 6.0V
USB Charging Current	≤ 600mA
Operating Environment Temperature Range	-20 - 85℃
Sleeping Mode Current	< 1mA
Environment Temperature Range for Long-term Storage	-40 - 85℃

Monitoring Air Pressure Range	0.0 - 4.0 Bar
Supported Bluetooth	Bluetooth 4.0 Version or Above
Monitoring Temperature Range	-40 - 85℃
Battery Capacity	2000mAH
Solar Charging Time	4Hours
Operating Environment Humidity Range	0 - 100%
Receiving Sensitivity	3dB
Tire Sensor (External) characteristics	
Battery	3V Imported Lithium Battery
Sensor Chip	Infineon
Operating Environment Humidity Range	0 - 100%
Operating Environment Temperature Range	-55 - 125℃
Air Pressure Range	0.0 - 4.0Bar
Radio Frequency	433.92MHZ
Transmitting Power	≤ 5dBm
Pressure Display Accuracy	0.1Bar
Temperature Measuring Accuracy	2℃
Weight	9grams
Batter Life	2-3 Years(depending on the actual usage conditions)
Tire Sensor (Internal) characteristics	
Battery	3V Imported Lithium Battery
Sensor Chip	Infineon
Operating Environment Humidity Range	0 - 100%
Operating Environment Temperature Range	-55 - 125℃
Air Pressure Range	0.0 - 4.0Bar
Radio Frequency	433.92MHZ
Transmitting Power	≤ 5dBm
Pressure Display Accuracy	0.1Bar
Temperature Measuring Accuracy	2℃
Weight	60grams
Batter Life	5 Years(depending on the actual usage conditions)

Introduction of the interface and button

Solar Charging   Tire Pressure   Battery Capacity

Bar

Tire Position

Tire Temperature

Scroll Buttons
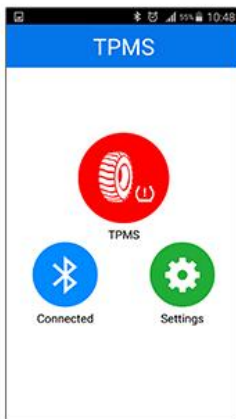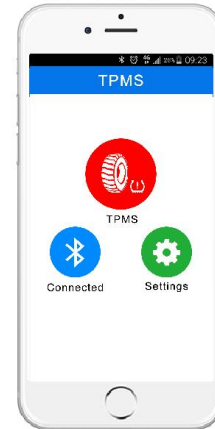
Charger Connector

ON/OFF Switch

Main Features

- 4" LCD Screen and Brilliantly Colorful Display.
- Smart Sleeping Mode for Energy Conservation.
- Multiple Placements -- On Dashboard or On Windshield.

- Flexible Adjustment of Viewing Angles and No Visual Blind Area.
- Multiple Status Monitoring and Real-time Warnings Upon Any Abnormal Situations.
- High Efficient Solar Panel and Large Capacity Battery Support Continuous Usage for 60 days.

Automatic Switch, Energy Conservation

With the inserted G-sensor, the device is automatically activated once the ignition is on, and turns itself off when the engine stalls.

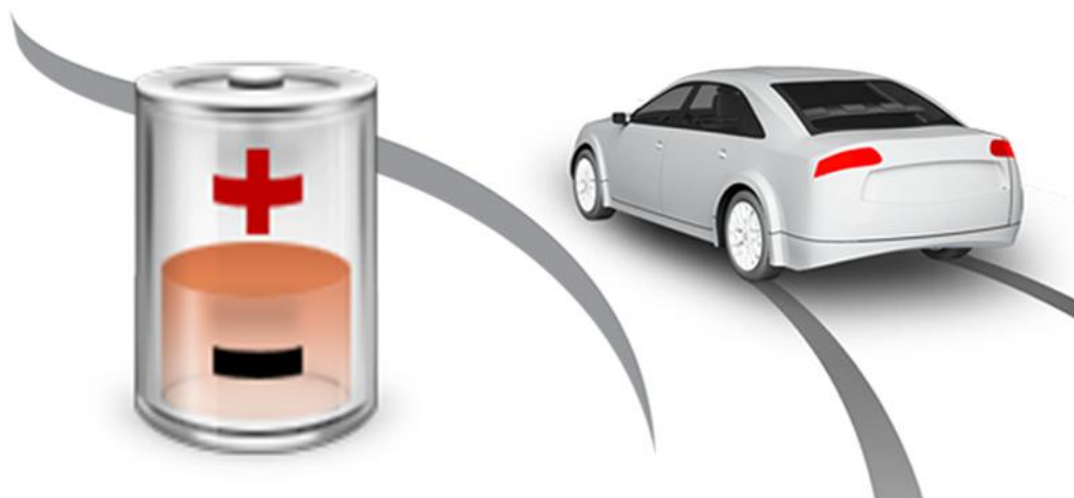## Large Size Solar Panel with High Efficiency, Fully Relies on Solar Charging

3 Times Bigger than Normal Panel
Maximum Output 6.5V,250mA

Folding Design for Multiple Placements
60° Viewing Angle, No Blind Area
4 Inches LCD Screen for Brilliantly Display

Explosion-proof Battery Built-in,
High and Low Temperature Resistance

Battery Capacity 2000mAH, Twice Larger than Similar Products

Once fully charged the endurance can last for 60 days.
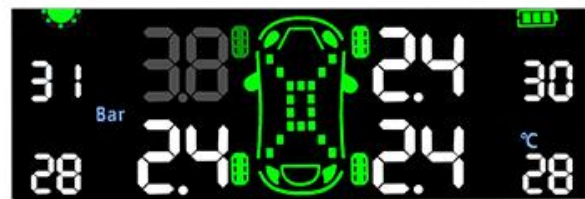
No need to occupy the cigar lighter.

Alarm Functions List

A real-time and accurate display of tire air pressure value / temperature value / solar panel working status / battery capacity, etc. when vehicle is moving. And timely warnings if any abnormal situation happens.

Low Pressure Warning

When the tire pressure is lower than the set value, the corresponding tire icon as well as the pressure value will keep flashing and a buzzer sound will pop out.

High Pressure Warning

When the tire pressure is higher than the set value, the corresponding tire icon and the pressure value will keep flashing and a buzzer sound will pop out.

High Temperature Warning

When the tire temperature is higher than the set value, the corresponding tire icon and the temperature value will keep flashing and a buzzer sound will pop out.

RF Data Receipt Failure Warning

Because of the improper installation or usage the sensor is damaged. In a set time (system default time is 15 minutes) the host will fail to receive the radio frequency transmitted from the damaged tire sensor. Under this circumstance the icon of the corresponding tire, the tire pressure value and the temperature value will be blinking which alerts the driver to the emergency

Multiple Placements

- Placement A: On the Middle of the Central Console

- Placement B: On the Central Console, Right in Front of the Driver

- Placement C: On the Windshield, Left Front Side of the driver, Near the A Pillar

- Placement D: On the Windshield, Below the Sun Visor

Installing And Setting Up the Tire Sensor

- Tire Sensor (External)

1 Remove the dust cap of the valve stems

2 Screw the anti-theft hex nut onto the valve stems with the spanner, and keep spinning till the end.

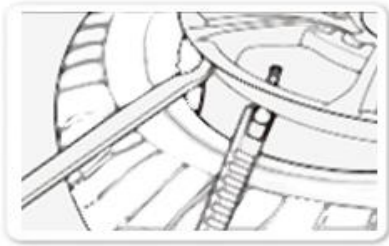**3** Mount the sensor to the correspondent tire tightly

4 Screw the hex nut reversely with the spanner and make it lock with the sensor.

5 Check for air leaks with soap water

Install the rest sensors in the same way.

- Tire Sensor (Internal)

1 Dismount the tire and remove the original valves stem

2 Install the sensor

3 Mount the tire

4 Pump up the tire and cap the valve

5 Adjust the tire's dynamic balance

6 Put on the tire

APP Installation

Android Phone	iOS Phone
Scan the QR code to download	Search "V-TPMS" in the APP store, download and install it

Total Package

Color Box	User's Guide
USB charging cable	Adhesive Tape

Tire Sensor (External)

Tire Sensor (External)	Anti-theft Hex Nut
Spanner for Hex Nut	Spanner for Sensor Cap

Tire Sensor (Internal)