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Vtopek H11

Vtopek H11 Solar TPMS: 3.5-inch Wireless Tire Pressure Monitoring System User Manual

Model: H11 | Brand: Vtopek

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Vtopek H11 Solar Tire Pressure Monitoring System (TPMS). This system is designed to monitor tire pressure and temperature in real-time, enhancing driving safety for both 2-wheel (trailer) and 4-wheel (car, SUV, van) vehicles.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- TPMS Monitor x 1
- External Sensors x 4
- Removable Bracket x 1
- Hex Nuts x 4
- Wrench x 1
- Type-C Charging Cable x 1
- Stickers x 2
- User Manual x 1

Packet List



Monitor * 1



Removable Bracket * 1



External Sensor * 4



Hex nut * 4



Wrench * 1



Type-C Charging Cable * 1



Sticker * 2



Manual * 1

Suitable for a wide range of vehicles



Figure 2.1: Package Contents

3. KEY FEATURES

- **Dual Mode Support:** Compatible with both 2-wheel (trailer) and 4-wheel (car, SUV, van) vehicles.
- **High Precision Monitoring:** Provides tire pressure readings with 0.01 bar accuracy.

- **Separate Alarm Settings:** Allows independent high/low pressure alarm value settings for front and rear tires.
- **Detachable Monitor:** The monitor can be easily detached from its bracket for flexible placement, charging, and settings adjustment.
- **Automatic Backlight:** 3-level adjustable backlight for clear visibility in various lighting conditions (daytime, indoor, night).
- **Real-time Alarms:** Six alarm modes including rapid air leak, high/low pressure, high temperature, sensor data loss, and low battery.
- **Automatic Sleep/Wake:** Features vibration detection for automatic power on/off, conserving battery.
- **Dual Charging Options:** Supports solar charging and USB Type-C charging.
- **Durable External Sensors:** IP68 waterproof, anti-dust, anti-theft, and suitable for a pressure range of 0.2 to 6.0 bar.

4. SETUP AND INSTALLATION

4.1 Monitor Installation

The monitor can be installed on the windshield or dashboard. The detachable bracket allows for flexible positioning and easy removal for charging or adjustments.

1. Attach the removable bracket to the desired location on your windshield or dashboard using the adhesive provided. Ensure the surface is clean and dry.
2. Slide the TPMS monitor onto the bracket. The angle can be adjusted for optimal viewing.
3. Ensure the monitor does not obstruct your view while driving.



Figure 4.1: Monitor Installation and Detachable Bracket

4.2 Sensor Installation

Install the external sensors on your vehicle's tire valves. Each sensor is labeled (FL, FR, RL, RR) for its corresponding tire (Front Left, Front Right, Rear Left, Rear Right).

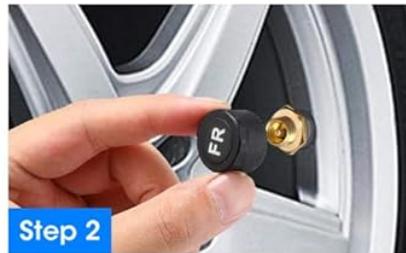
1. Remove the original valve cap from the tire valve.
2. Screw on a hex nut onto the tire valve.
3. Screw the corresponding sensor (e.g., FL for Front Left) onto the tire valve until it is hand-tight.
4. Tighten the hex nut against the sensor using the provided wrench to secure it and prevent theft.
5. Repeat for all four tires.

Easy to Install External Sensor



Step 1

1. Remove the tire valve cap and install hex nut onto the tire valve.



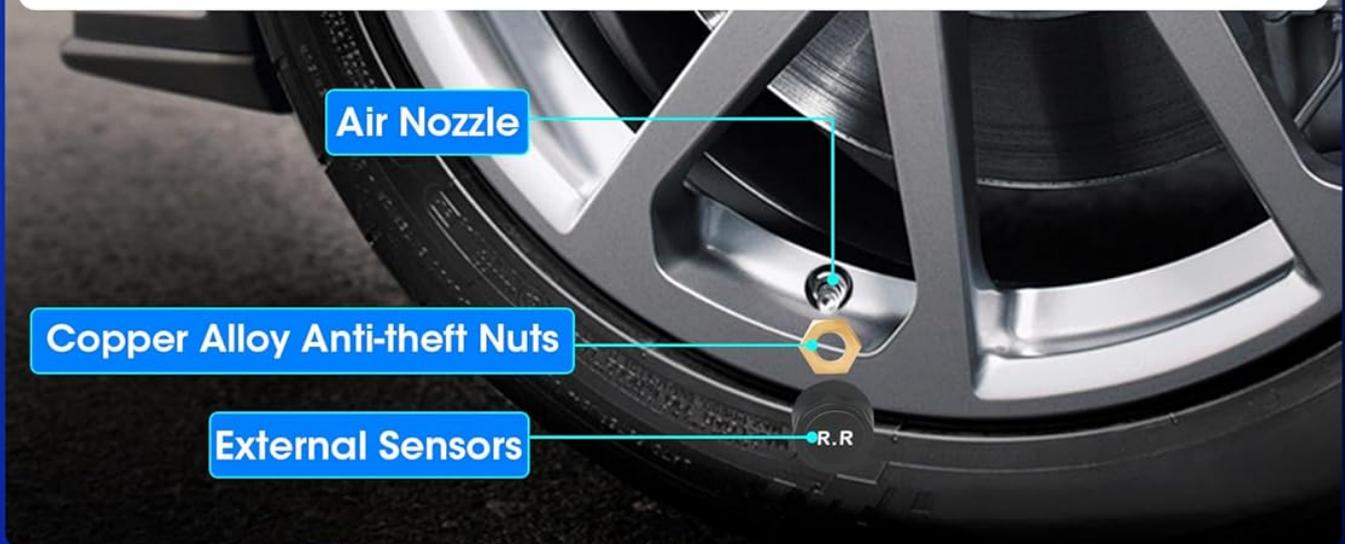
Step 2

2. First tighten the anti-burglary gasket and then tighten the sensor.



Step 3

3. Hold the anti burglary nacket with a snanner and tighten it counter-clockwise.



CR1632 Battery Inside

16mm (0.63in)
0.01kg (0.35oz)

22mm
(0.87in)



Copper
Replaceable Sealing Ring
Copper



Easy Installation



Anti-thief Sensors



IP69 Waterproof



[6 Bar]
Wide Pressure Range



[CR1632]
Replaceable Sensors

Note: The sensors are pre-paired with the monitor. If a sensor is replaced, it may need to be re-paired. Refer to the troubleshooting section for pairing instructions.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off and Automatic Functions

- **Initial Power On:** Press and hold the left button on the monitor for more than 3 seconds to turn it on.
- **Automatic Wake-up:** The TPMS monitor will automatically turn on when it detects vehicle vibration (e.g., opening a car door, starting the engine).
- **Automatic Sleep Mode:** If no vibration is detected for 5 minutes after parking, the monitor will automatically enter sleep mode to conserve power.

Automatic Sleep Mode

Less consumption and more durable



Vibration Detection Function

Automatically senses and turns on



Figure 5.1: Automatic Sleep and Vibration Detection

5.2 Display and Alarm Modes

The 3.5-inch large screen displays real-time tire pressure and temperature for all four tires simultaneously. The system features six alarm modes:

- **Rapid Air Leak Alarm:** Alerts to sudden and significant pressure drops.
- **High Pressure Alarm:** Activates if tire pressure exceeds the set high limit.
- **Low Pressure Alarm:** Activates if tire pressure falls below the set low limit.
- **High Temperature Alarm:** Warns if tire temperature exceeds the set limit.
- **Sensor Data Loss Alarm:** Indicates a sensor is not transmitting data.
- **Low Battery Alarm:** Alerts when the monitor or sensor battery is low.

3.5-Inch Large Screen Display Full Data Ensure Your Driving Safety

Real-time Monitoring & Alarming

Monitor and display the Real-time temperature and pressure of 4 tires at the same time, never miss any data.



Figure 5.2: Real-time Monitoring and Alarm Modes

5.3 Mode Switching (2-Wheel / 4-Wheel)

The system supports switching between 2-wheel mode (for trailers) and 4-wheel mode (for cars). This allows for accurate monitoring without unnecessary alarms when fewer sensors are active.

- To switch modes, access the system settings (refer to the full manual for specific button sequences).
- Select "2-Wheel Mode" if using only two sensors (e.g., for a trailer).
- Select "4-Wheel Mode" for standard car applications with four sensors.

Support Switching 2-Wheel/4-Wheel Mode



Figure 5.3: 2-Wheel / 4-Wheel Mode Switching

5.4 Setting Alarm Values

This TPMS allows for separate high and low pressure alarm settings for front and rear tires, providing more precise monitoring tailored to your vehicle's requirements.

1. Enter the settings menu on the monitor.
2. Navigate to the alarm value adjustment section.
3. Set the desired high pressure alarm value for the front tires (e.g., 3.45 bar).
4. Set the desired low pressure alarm value for the front tires (e.g., 1.95 bar).
5. Repeat the process for the rear tires, setting their specific high and low pressure alarm values (e.g., 5.85 bar high, 2.55 bar low).
6. Save your settings before exiting the menu.

Separate Setting of Alarm Value for Front and Rear Wheels



2.51Bar

2.51Bar

3.02Bar

3.02Bar

Our

Front Wheel
High Pressure
Alarm Value



Front Wheel
Low Pressure
Alarm Value

Rear Wheel
High Pressure
Alarm Value



Rear Wheel
Low Pressure
Alarm Value



Other

Only the same high and low pressure alarm values can be set for the front and rear wheels.



Figure 5.4: Separate Front and Rear Wheel Alarm Settings

6. MAINTENANCE

6.1 Monitor Charging

The monitor supports two charging methods:

- **Solar Charging:** The integrated solar panel charges the monitor when exposed to sunlight. Ensure the monitor is placed in a location with adequate sun exposure.
- **USB Type-C Charging:** For cloudy days or when solar charging is insufficient, use the provided USB Type-C cable to charge the monitor via a car charger or other USB power source.

Important: Charge the monitor for more than 3 hours before its first use. When fully charged, a long press of the left button will turn it on.

Solar & USB(Type-C) Charging

Dual charging mode, no need to worry about power.



Sunny



Cloudy



Rain



Snow



Solar Energy Charging

Solar charging starts as soon as light is sensed



USB Charging

Equipped with TYPE-C charging port to ensure uninterrupted power supply on rainy days



Charge for more than 3 hours before first use; when fully charged, long press the left button to turn it on.

Figure 6.1: Solar and USB Type-C Charging

6.2 Sensor Battery Replacement

The external sensors use replaceable CR1632 lithium-polymer batteries. When a low battery alarm for a sensor is triggered, replace its battery.

1. Unscrew the sensor from the tire valve.
2. Carefully open the sensor casing.
3. Remove the old CR1632 battery.
4. Insert a new CR1632 battery, ensuring correct polarity.
5. Close the sensor casing and re-install it on the tire valve, following the installation steps in Section 4.2.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Monitor does not turn on.	Low battery; not powered on manually.	Charge the monitor via solar or USB-C. Press and hold the left button for 3 seconds to power on.
No tire data displayed.	Sensors not installed; sensor battery low; sensor not paired; vehicle stationary.	Ensure sensors are correctly installed. Replace sensor batteries if needed. Drive the vehicle for a short distance to activate sensors. If still no data, repair sensors (refer to full manual for pairing steps).
Inaccurate pressure readings.	Sensor not fully tightened; incorrect alarm settings.	Ensure sensors are tightly secured. Verify alarm settings are appropriate for your vehicle.
Alarm sounds frequently.	Alarm thresholds set too close to normal operating pressure; actual tire issue.	Adjust high/low pressure alarm values to suitable levels. Check tires for actual pressure issues or leaks.
Monitor screen is dim.	Backlight setting is low; low ambient light.	Adjust backlight brightness settings on the monitor.

8. SPECIFICATIONS

Feature	Detail
Model Number	H11
Brand	Vtopek
Display Size	3.5 inches
Pressure Accuracy	0.01 bar
Pressure Range	0.2 - 6.0 bar
Sensor Waterproof Rating	IP68
Monitor Charging	Solar / USB Type-C
Sensor Battery Type	CR1632 Lithium-polymer (replaceable)
Material	Acrylonitrile Butadiene Styrene (ABS)

Feature	Detail
Package Dimensions	14.1 x 11.5 x 7.1 cm
Item Weight	10 Grams

9. WARRANTY AND SUPPORT

Vtopek provides a **1-year warranty** for this TPMS product. For technical support, warranty claims, or any inquiries, please contact our customer service.

- **Warranty Period:** 1 Year from the date of purchase.
- **Contact:** Refer to the contact information provided with your product packaging or on the official Vtopek website.



Figure 9.1: Warranty and Support Information

