Aramox Aramoxzgpneot06q540

Aramox Solar-Powered 6-Sensor TPMS Instruction Manual

Model: Aramoxzgpneot06q540

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Aramox Solar-Powered Tire Pressure Monitoring System (TPMS). This system is designed to monitor the tire pressure and temperature of up to 6 tires in real-time, enhancing driving safety for RVs, trucks, large SUVs, and similar vehicles. Please read this manual thoroughly before using the product to ensure proper function and safety.

2. Safety Information

- Always ensure all components are securely installed to prevent detachment during vehicle operation.
- Do not attempt to disassemble or modify the TPMS receiver or sensors. This may void the warranty and pose safety risks.
- Regularly check tire pressure with a calibrated gauge, even when using the TPMS, as the system is an aid and not a substitute for proper tire maintenance.
- If an alarm sounds, safely pull over and inspect your tires immediately.
- Keep the receiver's solar panel clean and unobstructed for optimal charging performance.

3. Package Contents

Please verify that all items are present in your package:

- 1 x TPMS Receiver Display Unit
- 6 x External Tire Pressure Sensors
- 1 x USB Charging Cable
- 1 x User Manual (this document)
- Anti-theft nuts and wrench (may be included for external sensors)

4. Product Overview

The Aramox TPMS consists of a main display unit and six external sensors. The display unit features an LCD screen, solar panel for charging, control buttons, and a micro-USB port.



Figure 4.1: Main display unit of the Aramox TPMS, showing the LCD screen with tire pressure and temperature data.

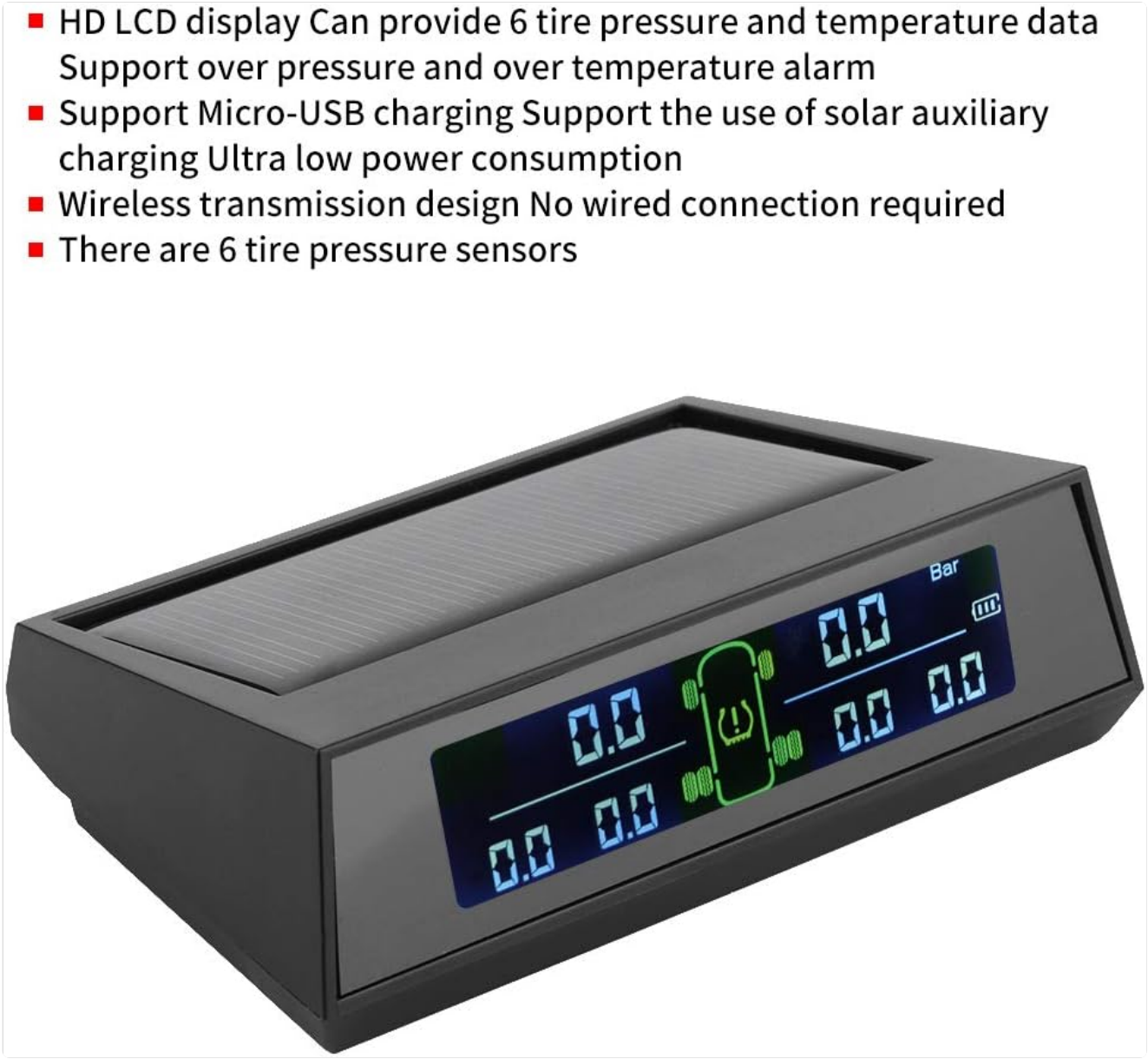


Figure 4.2: Close-up view of the display unit's side, highlighting the control buttons, top-mounted solar panel, and micro-USB charging port.

The external sensors are compact, battery-powered units designed to be screwed onto the tire valve stems. They wirelessly transmit real-time pressure and temperature data to the display unit.

5. Specifications

Feature	Specification
Type	Tire Pressure Monitoring System (TPMS)
Material	ABS
Pressure Range	0 - 116 psi / 0 - 8 bar
Operating Frequency	433.92 MHz
Accuracy	± 1.5 PSI
Pressure Unit	PSI / BAR

Feature	Specification
Temperature Unit	Celsius / Fahrenheit
Operating Voltage	DC 5V
Waterproof Level	IP67 (Sensors)
Sensor Battery	CR1632 button cell (integrated)
Receiver Battery	400 mAh Polymer Lithium Battery (integrated)
Sensor Battery Life	1.5 - 2 years
Receiver Charging Mode	USB, Solar
Application Range	RVs, Trucks, Large SUVs, Big G, Vans, Pickups, etc.

6. Setup

6.1 Initial Receiver Charging

Before first use, it is recommended to fully charge the receiver unit using the provided USB cable. Connect the micro-USB end to the receiver's port and the standard USB end to a 5V USB power source (e.g., car charger, computer USB port).

6.2 Receiver Placement

Place the receiver unit on your vehicle's dashboard where it has a clear view of the sky for optimal solar charging and is easily visible to the driver. Ensure it does not obstruct your view or interfere with airbags.



Figure 6.1: Example placement of the TPMS display unit on a vehicle dashboard for clear visibility and solar charging.

6.3 Sensor Installation

1. Identify the correct position for each sensor (e.g., Front Left, Front Right, Rear Left, Rear Right, etc.). The sensors are typically labeled or can be assigned during pairing.
2. Remove the original valve cap from the tire valve stem.
3. If anti-theft nuts are provided, first screw an anti-theft nut onto the valve stem.
4. Screw the corresponding external sensor onto the valve stem until it is hand-tight.
5. If using anti-theft nuts, tighten the nut against the sensor using the provided wrench.
6. Repeat for all 6 tires.

The sensors are typically pre-paired with the receiver. If new sensors are added or pairing is lost, refer to the operating instructions for re-pairing procedures.

7. Operating Instructions

7.1 Power On/Off

The receiver unit typically powers on automatically when it detects vibration (vehicle movement) or receives

sufficient solar charge. To manually power on/off, press and hold the 'OK' or power button (refer to Figure 4.2 for button locations).

7.2 Display Information

The LCD screen displays real-time pressure and temperature for each of the 6 tires, along with the receiver's battery status. A central tire icon indicates the overall system status.



Figure 7.1: The TPMS display unit showing real-time pressure and temperature readings for all six connected tires.

7.3 Unit Switching (PSI/Bar, °C/°F)

Press the 'SET' button to enter the settings menu. Use the 'OK' or navigation buttons to cycle through options such as pressure unit (PSI/Bar) and temperature unit (°C/°F). Press 'SET' again to confirm your selection and exit the menu.

7.4 Alarm Settings

In the settings menu, you can adjust the high-pressure, low-pressure, and high-temperature alarm thresholds. Set these values according to your vehicle's recommended tire specifications. The system will alert you visually and audibly if any tire's parameters exceed these set limits.

8. Maintenance

8.1 Cleaning

Wipe the receiver display unit with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the solar panel remains clean for efficient charging.

8.2 Sensor Battery Replacement

The external sensors use CR1632 button cell batteries. When a sensor's battery is low, the display unit will indicate it. To replace: unscrew the sensor from the valve stem, carefully open the sensor casing, replace the CR1632 battery, and reassemble. Ensure the waterproof seal is correctly seated before tightening.

8.3 Receiver Charging

The receiver charges via its integrated solar panel or the micro-USB port. For prolonged periods of low light or heavy use, use the USB charging cable to maintain battery levels.

9. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Receiver display is blank	Low battery; Unit is off; No vibration detected.	Charge via USB; Press and hold power button; Move vehicle to activate.
Sensor not displaying data	Sensor battery low/dead; Sensor not installed correctly; Sensor not paired.	Replace sensor battery; Re-install sensor securely; Re-pair sensor (refer to specific pairing instructions if needed).
Inaccurate pressure/temperature readings	Sensor not fully tightened; External interference.	Ensure sensor is tightly screwed on; Check tire pressure with a manual gauge for comparison.
Alarm triggers frequently	Alarm thresholds set too close to normal operating pressure/temperature; Actual tire issue.	Adjust alarm thresholds in settings; Check actual tire pressure and temperature.

10. Warranty and Support

Aramox products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. For warranty claims, technical support, or further assistance, please contact your retailer or Aramox customer service with your purchase details and model number.